# Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



AdGTP

# UNITED STATES DEFALLE UNIT OF AC - FI STATE SOME CONSTRUCTION OF C

HYDROLOGIC STUDIES

COMPILATION OF
RAINIALL AND RUN-OFF DATA FROM THE WATERSHEDS
OF THE
ARK.-LA.-EAST TEXAS SANDY LANDS
CONSERVATION EXPERIMENT STATION
TYLER, TEXAS

1931-39

U. S. DEPT. OF AGRICULTURE NATIONAL AGRICULTURAL LIBRARY

AUG 4 1072

PRODUCTION CECTION CURLE RECOADS

Prepared in ecoperation with

The Texas Agricultural Experiment Station

Office of Research SCS-TP-41 June 1944



# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL COMMERVATION SERVICE Washington, D. C.

#### HYDROLOGIC STUDIES

COUPILATION OF

RAINFALL AND RUN-OFF DATA FROM THE WATERSHEDS

OF THE

ARK.-LA.-EAST TEXAS SANDY LANDS

CONSERVATION EXPERILENT STATION

TYLER, TEXAS

1931-39

Ву

O. C. Word, Jr.
Associate Agricultural Engineer
Tyler, Texas

Androis and a second

Prepared in cooperation
with
The Texas Agricultural Experiment Station
under the direction of
C. E. Ramser
Chief, Hydrologic Division

Office of Research SCS-TP-41 June 1941



# CONTENTS

	Page						
The station	1						
Acknowledgements	1						
Physical characteristics	2						
Watersheds - their history and description							
Wooded watershed No. 3	2						
Cultivated watershed No. 4	3						
Strip-cropped watershed No. 5	4						
Instrumentation							
Rain gages	5 -						
Parshall flumes	7						
Ramser silt samplers	7						
Compilation of data, methods	8 .						
Description of wooded watershed No. 3 (Appendix A)	10						
Maps							
Compilation of dats, records							



### TABLES

No.		Page
1. 2. 5. 4. 5. 6.	Recording rain gages	6 14 15 21 21
	PLATES	
I	Run-off measuring equipment, wooded watershed	
II	No. 3	
III	Run-off measuring equipment, cultivated water-shed No. 4	
A IA	Cultivated watershed No. 4	
X IX AIII AII	Strip-cropped watershed No. 5	
	FIGURES	
1. 2. 3. 4. 5.	Map of the Conservation Experiment Station Soil map of the Conservation Experiment Station Map of wooded watershed No. 3 Map of cultivated watershed No. 4 Map of strip cropped watershed No. 5	



REPORT ON HYDROLOGIC INVESTIGATIONS ON SMALL WATLESFIEDS
AT THE SOIL CONSERVATION EXPERIMENT STATION,
SOIL CONSERVATION SERVICE, TYLER, TEXAS

#### I. The Experiment Station

The Soil and Water Conservation Experiment Station,
located about 10 miles northwest of Tyler, was established
in 1930. Work on the station was cooperative between the
Bureau of Chemistry and Soils and the Bureau of Agricultural
Engineering of the U. S. Department of Agriculture and the
Texas Agricultural Experiment Station, College Station, Texas.
In April 1955 the activities of the Department of Agriculture
on this station were assigned to the Soil Conservation Service.
It is generally regarded that this station serves an area
of approximately 33 million acres in southwestern Arkansas,
northwestern Louisiana, and in eastern Texas.

Acknowledgment is made to C. E. Ramser for locating the watersheds and for early direction of the work. The installation of the equipment and the collection of the early basic records were done by R. W. Baird. During 1936 and the early part of 1937, collection of the records was in charge of S. J. Mech. He was assisted by J. C. Archer who has had intimate knowledge of the work and the areas from the beginning of the records. Since April 1937 the author has been in charge of the operation of the watersheds.



The instructions for compiling, tabulating, and presenting the data were prepared by W. D. Potter and L. L. Harrold of the Washington office, Hydrologic Division, Soil Conservation Service, and the data were reviewed by them before publication. The compilation work in the field was initiated by W. D. Potter.

#### II. Physical Characteristics of the Station

The Arkansas-Louisiana-East Texas Sandy Lands Soil and Water Conservation Experiment Station utilizes a part of the 455-acre tract of the Texas Agricultural Experiment Substation No. 2.

The topography is gently rolling to hilly. The principal soils are fine sandy loams with the Kirvin, Macogdoches, and Bowie series predominating but with Hannahatchie, Susquehanna, Norfolk, Bibb, and Orangeburg represented.

# III. Description and History of each Watershed

This report is chiefly concerned with three watersheds, Nos. 3, 4, and 5.

Wooded watershed No. 3 has an area of 7.94 acres and an average slope of approximately 7.5 percent. The size and shape have not been altered since the boundaries were established in 1932, the only changes occurring being the natural increase in the size of the trees and the increase in the density of the understory. A small amount of grazing was permitted in the past but has now been discontinued. A very small portion of the area on which a cemetery had been located was burned in 1938.



Figure 3 is a contour map showing the size, shape, and the topography of the watershed.

A detailed description of the vegetative cover, together with a stand count and forest inventory for this watershed, is given in Appendix A of this report.

Unterraced cultivated watershed No. 4 is a badly gullied area with an average slope of 7.5 percent. This land has been under measurement since July 1930 and has been treated always with the same cropping plan used for a large part of the terraced fields on the station. Until 1939 the boundaries of this fanshaped watershed, for the most part, were the natural divides along the sides, with a terraced area above limiting the extent of its slope and area. Gully formations near the upper ends of the watershed tended to divert from the watershed a small part of the drainage from time to time. When these gullies had developed in depth to such an extent that their inclusion in the area became difficult, the water was allowed to drain outside the watershed boundaries and the area served by the gaging station was reduced accordingly. This accounts for the changes in the drainage areas shown up to 1959. In March 1959 levees were constructed along each side to fix the permanent boundaries and to enclose its present area of 6.05 acres.



When first placed under measurement the two larger gullies near the middle of the watershed were somewhat protected by a growth of brush. This protection was augmented to a limited extent by temporary brush dams constructed during the summer of 1930, and later by a small amount of sodding. All cultural practices have been conducted on the approximate contour, but during 1931, 1932, 1933, and 1934 farming across these gullies was not practiced except at strategic points. During the fall of 1935 the brush was cleared from the gully banks and since most of the temporary dams had been obliterated, the gully banks were ploued in to permit all farm implements to cross at almost every row.

In 1936 the flume and silt box were replaced and elevated slightly from their original elevations. During this period of rebuilding the records for the first six months of the year were lost. Later a slight amount of silting occurred in the lower gullies.

Figure 4 is a contour map of this cultivated watershed.

Unterraced cultivated watershed No. 5 has been stripcropped during most of the time that it has been under measurement. This watershed is one on which the control and erodible
strips have each occupied 50 percent of the area for most of
the periods.



As in the case of Matershed No. 4, boundaries followed natural divides and were not continuous levees during early periods of the operation of this gaging station. Gullies and cultural practices sometimes permitted a certain amount of diversion from the watershed, at which times the boundaries and the area were altered accordingly. In March 1939 continuous levees were constructed to fix the boundaries of the watershed.

Figure 5 shows a contour map of the strip-cropped water-shed.

#### IV. Instrumentation

- A. Rain gages Standard and Recording
  - 1. All recording rain gages at this station are

    Fergusson type weighing and recording rain and snow gages. In addition to the recording gages shown in Table No. 1, several standard 8-inch Weather Bureau gages are located on the station. Dual installations of standard and recording gages are not utilized at all locations, but stick readings of the rainfall collected by the recording gages are always made and this reading used for the amount of rainfall. The recorded data are utilized for rainfall intensities and durations.

Since January 1957 recording gages have been so located that they can best serve the watersheds directly without weighting.



Table 1 - Recording rain gages; their location, date of installation, scales and proximity of obstacles.

1		-								
Distance from Wearest	Obstacles		No obstacles within 300'	Scattered trees 30' high, 60' away	Scattered trees 50' high, 100' away	No obstaclos vithin 600'	No obstacles within 450'	No obstacles within 350'	No obstacles within 450'	Groonhouse 8' high, 70' to S.E.
Scales: 1" on Chart Equals	Rainfell	Inches	99.0	99.	99•	99•	99.	99•	99•	99•
	Time	Linutes	31.5	126.0	63.0	63.0	63.0	63.0	63.0	126.0
Date of	ation	Let a membranism as processors and	0ct. 18, 19302/	Jan. 1, 19382/	1931	AT1261.	, 1936	, 1936	1, 15385/	1939
	Installation	in-plate e con prim-reggiornementoristicale	0ct. 18	Jan. 1	Nov. 10,	D"Oct. 28	Dec. 30, 1936	Dec. 30, 1936	Jen. 1	Apr. 14, 1939
beation	• 0		Project No. 1 plots	Project No. 3 plots	Project No. h plots	Field "C" adjacent Field "D"Oct. 28, 19314	12 Field "A", Terrace A-7	Field "B"	Terrace C-19	Woather yard
Gage	No.		H	3	5	10	12	16	19	21

Lall recording rain gages are of the Fergusson weighing type. Present 6-hour gage installed Oct. 26, 1938, replacing older installation.

Flowed from location in Field "N". Initially installed Aug. 1, 1932.

Lioved from location at Federal fermstead. Initially installed Apr. 16, 1930.

Shoved from cemetery location (No.20). Initially installed Dec. 30, 1936.



#### B. Parshall Flumes

1. Parshall improved type Venturi flumes are used for all volume and rate measurements of run-off, the stage and time recorded for the most part by float type Bristol water-stage recorders. However, run-off stations 4 and 5 during the early periods of operation were equipped with Bristol recording pressure gages.

#### C. Ramser Silt Sampler

1. Measurements of soil losses in run-off water were made by means of Ramser silt samplers in conjunction with silt boxes of varying size, depending on the size of the watershed.

The run-off water first passes through the Parshall flume where stage and time are recorded by the instrument on a 12-hour chart. The water then discharges into the silt box where the heavier particles settle out before the water passes over the rectangular weir at the end of the box. As the water flows over the weir an aliquot sample is continuously collected by the Ramser silt sampler.

The oven-dry soil content of samples from the tank and silt box is determined in the laboratory.

The percentage of dry soil content of the samples from the silt of the samples.



gives the quantity of dry soil retained by the silt box. The ratio of quantity of soil to water in the Ramser silt sampler multiplied by the amount of water passing over the weir gives the total amount of soil carried away in suspension. The sum of these two quantities gives the amount of soil loss in run-off water from the area.

#### V. Graph and Tabulation Sheets

A tabulation of rainfall and run-off has been prepared on Form SCS-345 for all storms during the period of record. This tabulation includes watershed sizes, rain gages used in the computations, and condition of the watersheds.

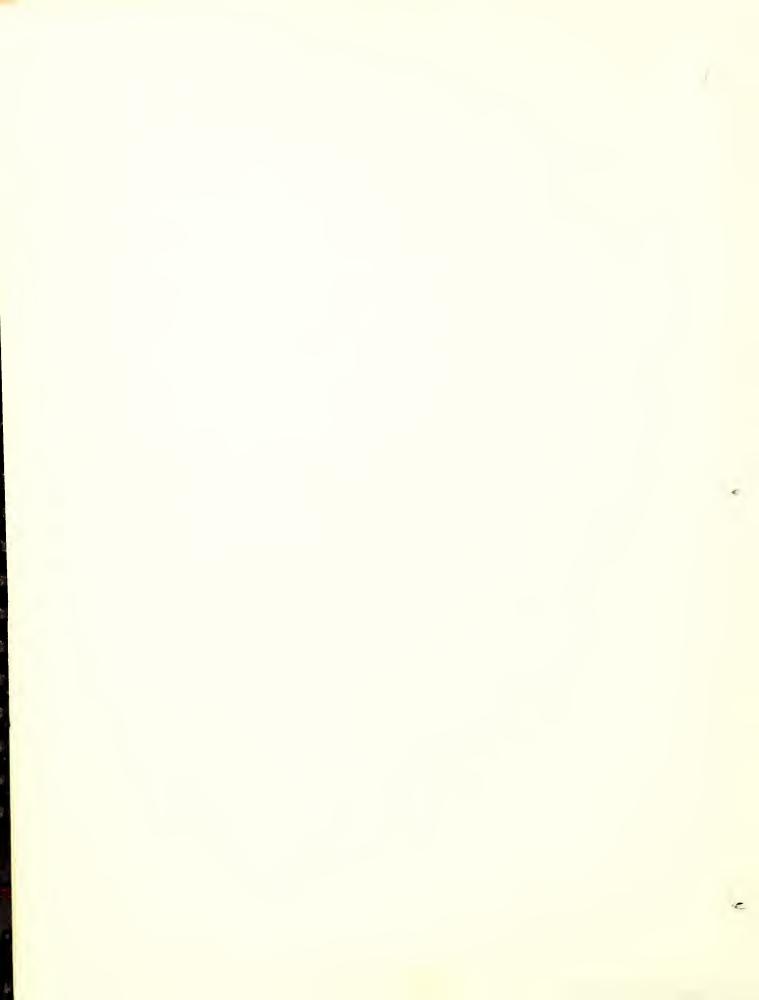
The storms selected for graphic presentation were those where run-off occurred on at least one of the watersheds and represent practically all types of rainfall during the periods covered.

Whenever the record from the rain gage in field "C" was satisfactory it was used on the graphs. This gage is one of the oldest gages on the station and is located adjacent to Watershed No. 4 which lies somewhat between Watersheds 3 and 5. As a consequence, the record from this gage is the most nearly representative of the precipitation on the three watersheds. When the field "C" record was unsatisfactory because of mechanical failure, the gage on Project No. 4 plots was used, since it is also one of the older locations on the station and somewhat centrally located. The records from the latter gage, however, may be affected occasionally by large trees close by.



The accumulated rainfall graphs reproduce the record from the rain gage charts although on a somewhat different scale. In plotting and in computing the rates of rainfall the "break points", or the points on the chart where the rate of rainfall actually changed, were utilized rather than an arbitrarily selected time interval.

In preparing the hydrographs of surface run-off, the "break points" as well as various intermediate points on the stage recorder charts were used. These were converted to cubic feet per second by means of rating tables prepared for the individual Parshall flumes used.



#### APPELDIK A

Description of wooded watershed Arkansas-Louisiana-East Texas Sendy Lands Conservation Experiment Station, Tyler, Texas April 1939

#### T. B. HcKeithen2

The wooded watershed, comprising 7.94 acres, forms a part of the Arkansac-Louisiana-East Texas Sandy Lands Conservation Experiment Station located about 10 miles northwest of Tyler, Smith County, Texas.

The wooded watershed, located in the experiment station as shown in figure 3, is situated about midway on a long slope that averages 7.5 percent. The upper portion of the slope is cultivated while the lower part is pastured. The wooded watershed extends from an elevation of approximately 118 to 146 feet and is well protected from outside influences.

The soil is classed as Kirvin fine sandy loam, with the average depth of the A horizon varying from 9 to 15 inches. The top soil contains a large amount of gravel and tends to cement together to form a pavement when the finer soil particles are lost by erosion.

For the purpose of this description, the watershed has been divided into five types based on the condition of cover and past use of the land as delineated on map, figure 3. A brief description of each type follows:

The survey of the wooded watershed was carried out by the Forestry Division, Soil Conservation Service, in accordance with the specifications of W. U. Garstka, Hydrologic Division.

<sup>2</sup> Forestry Division, Soil Conservation Service.



#### Grassland - 1.04 acres

This area is located on the upper side of the watershed and was in cultivation for many years prior to 1932. At that time it was retired from cultivation and allowed to reseed naturally to grass. It contains an excellent cover of various species of grasses at the present time. This area serves to catch soil and water from a well-traveled dirt road lying above and adjacent to the watershed (pl. VII). Cemetery - 0.76 acres

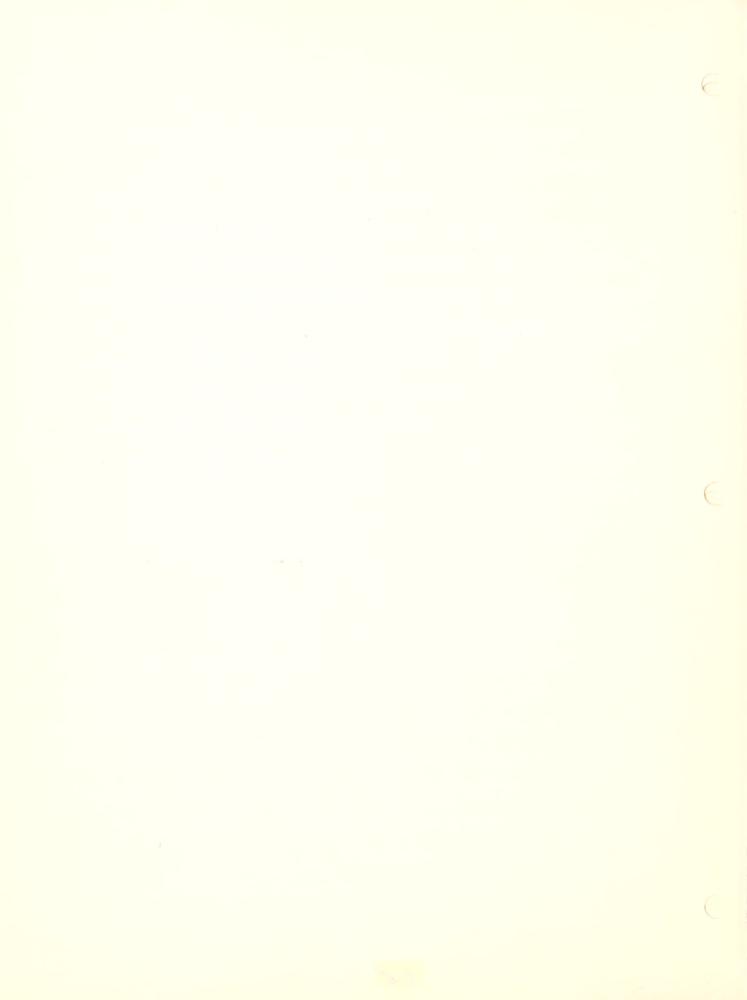
This area has been used as a cemetery since 1847. It contains a scattered stand of trees, chiefly Juniperus virginiana, which had been planted as markers or shades for graves. Many of the trees are over 75 years old. The area has been subjected to periodic "graveyard vorkings", a practice of hoeing and raking the grass, weeds, and brush from the area, leaving the soil entirely bare. This custom was discontinued, however, in 1936 and the ground at present is well covered with grass and other vegetation (pl. VIII).

#### Rondway - 0.25 acres

The road, approximately 12 feet wide and 660 feet long, was completely blocked from all traffic in April 1939. It has not been used for heavy traffic since 1935, but farm implements and machinery have been transported over it since then preventing the establishment of any vegetation. Sheet erosion is active since the roadway is not on the contour, and considerable deposition has collected at the foot of the slope.

# Ungrazed Woodland - 1.16 acres

This area has never been subjected to grazing according to all available records. It contains a good stand of large timber with a dence



understory of reproduction, grass, and herbs. There are two small areas within this type which were desurfaced in 1919 but contain a frir cover of grass and weeds at the present time. This type was evidently used as a parking lot for wagons and teams when there were funerals in the cemetery. According to the old residents, a church was also located in the edge of this area but abandoned many years ago. Any effect of packing of the soil by people is not visible at the present time. (pl. IX.)

### Grazed Woodland - 4.73 acres

This is the only portion of the wavershed that has been subjected to grazing. It was grazed only in the period 1932-1936.

The stand of timber is comparatively thin with reproduction of inferior species predominating. Wind sweep has left bare spots under many of the larger trees. Large openings varying up to one-tenth of an acre in size are found in this area (pl. X).

## Inventory

A 100-percent inventory was taken of all trees six-tenths of an inch and over diameter breast height (DBH). Each type was inventoried separately. The field work for this survey was made during the period april 3-9, 1939. Certain details were eliminated as only a week was allotted for completion of the work. A summary stand table for the entire woodland (table 2) is included in this report.

<sup>3</sup>Detailed report and field notes are on file at the Conservation Experiment Station.



#### Growth Rate

As this was the first survey of the forest ever made in this watershed, growth rate was determined to ascertain whether a marked change might have occurred since 1930 and to provide an additional means of comparison with other woodlands.

The determination of growth rate was made in accordance with the procedure outlined by George F. Rupp. 4 A slight variation was made in collecting data, as growth was measured on 100 percent of the trees in the cemetery and ungrazed woodland while only 50 percent was measured for growth in the grazed woodland area.

The growth rate expressed as growth percent is given by diameter classes for the entire watershed in table 3:

<sup>4&</sup>quot;A simple method of securing the technical data necessary for the preparation of woodland management plans", September 1938. (SCS-mimeo.)



14

TABLE 2

AHKADABS-LOUISIAMA-EAST TEXAB BANDY LANDS
(CHOSENVATION EXPERIFEMT STATION
TYLER, TEXAS

FORESTED WATERSHED STAND TABLE, AREA 7.936 ACRES THEES BY SPECIES AND DIAMETER CLASSES

April 5, 1939

McKeithen, Chalk, and Johnson

1				1	,	,	,	,,	1
Harder   Proper   Property   Prope	Percent	10.0	8.7 7.5 5.5 5.4	3400 8400	១.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.ភ.	1,007	04000		100.0
Hitch   Pigt   Chark   Code	Total Trees	48 57 37	420 24 24 26	8228	27 27 13 27	17 13 9	08444	791	
Hinck Physic (Misc)   Hinckory (Misc)   Hinck Physic (Misc)   Hinck Physic (Misc)   Hinckory (Misc)	Hackborry	1	prof				,	4	8.
1. c	Crope	dd.						2	4.
Hitch Park Onk Onk Onk Onk Onk Onk Onk Onk Onk On	Pereimmon	ರಣಚಾರ	1					202	4.2
Hinck Post Onk Onk Intekery Coder Cherry Degreed Winged Segarrage	Mulberry	1	c <sub>3</sub>					ы	9.
Hinck Post Gak Hickory Codar Chorry Dogwood Winged  3 1 2 3 1 1 1 1 1 1	Prickly Ash	22	C)					ನೆ	5.0
Hunck Post Black Intekory Codar Chorry Dogwood  3 1 2 3 1 1 1  13 5 5 2 3 1 1 1  14 10 3 5 5 5 1  15 19 5 6 4 4 1 1  18 12 2 4 5 5  19 19 2 5 1 2  10 4 7 2 2 4 5  10 4 7 2 2 4 5  10 5 7 7 2 2 4 5  10 7 8 7 7 8 7  10 8 7 8 7 8 7  10 9 4 1 1 1  20 60 45 46 5.8 .2 .2	Sassafras	4 8	9871	3861	22 11			32	6.7
Hunck Post Black Hickory Codar Cherry  3 1 2 3 1 1 1  13 5 2 3 1 1 1  14 10 3 1 2 3 1  15 19 5 5 5 1  10 4 7 2 4 4 1  10 4 7 2 4 4 1  11 2 2 5 2  11 1 2 2 5 2  12 1 1 2 2  13 1 1 1 2  14 1 1 1  20 63 45 46 25 1  20 83 45 46 25 1  20 83 45 46 25 1  20 83 45 46 25 1  20 83 45 46 25 1  20 83 45 46 25 1  20 83 45 46 25 1	Winged Elm				Н			82	ъ.
Hunck Post Slack Intekery Goder  3 1 2 3 1  13 5 5 2 3 1  14 10 3 5 5 5 1  15 19 5 5 5 1  10 4 7 2 4 4 1  10 4 7 2 2 4 4  11 10 2 5 1  12 1 2 5 1  13 1 2 5 2  14 1 1 1  20 5 63 45 56  12.5 14.2 9.4 9.6 5.8	Dogwood		1					7	2.
Hunck Post Black Horry  3 1 2 3  13 5 5 2 3  15 19 5 5 5 1  17 19 5 4 4  10 4 2 4  10 4 7 2 4  10 4 7 2 2  11 2 3 3  11 2 2 4  10 4 1  11 2 2 5  11 3 2 5  11 3 2 5  11 4 1  11 2 2  205 63 45 46  12 2 4  14 1  18 1 2 2  19 1 4 1  205 63 45 46	Black Chorry	н	1					J	લ્યુ
Hunck Post Black Oak Oak Oak Oak Oak Oak Oak Oak Oak Oa	Rod Codar		87.1	ರಾವಕವ	auaa	7 2		238	5.8
Hunck Post Ook	Hickory	3 3	1 1 4	4440	വ	1		46	9.8
205	Black Oak	63 63	© 20 20 4 €	030301	ಜಡಡಡ	44		45	9.4
	Post	1 2	100	V403H	8448	-	-	63	14.2
11	HIACK Tree Oak	33 S	200	8 10 112 115	12 18 7 01 .	11 9 8	83	205	12.5
			22.2	3011	11.	AA-A	\$ \$ . p\$	Total	Perc



Table 3.- GROWTH RATE BY DIAMLT R CLASSES1
April 1939 Tyler, Texas

рвн	Number of <sup>2</sup>	Growth Percent		Number of <sup>2</sup> Trees	Growth Percent
Inches 4 5 6	35 43 36	9.8 9.9 9.3	Inches  16 17 18	27 17 12	1.7 2.2 2.1
<b>7</b> 8 9	30	8.4	19	10	2.2
	25	5.4	20	9	1.6
	28	5.3	21	0	0
10	21	4.3	2 <del>11</del>	2	2.1 0
11	26	3.1	23	0	
12	30	3. <sup>4</sup>	22	1	
13	25	3.1	25	0	0
14	27	2.5	26	1	1.2
15	13	2.9	3 <sup>3</sup> 4	1	1.8

laccording to Pressler's formule based on a 10-year period.

### MANAGENTANT HISTORY

# Cutting

The grazed and ungrazed woodland areas were subjected to a clearing or an improvement cutting in the spring of 1936. The undergrowth of briers, American Beauty berry, vines, Crataegus spp., and some of the reproduction of oak and hickory, were removed.

Dead and badly defective trees were taken out and the remaining trees pruned of dead limbs. The purpose of the cutting was to



<sup>2</sup> number of trees used in this calculation.

,

create a park-like appearance in the woods by eliminating the understory of brush and small saplings. Removal of the dead and defective trees was classed as a sanitary measure. No record was kept of the amount of material removed. The stand improvement work has probably had a deleterious effect in that the removal of the underbrush opened the stand to the desiccating and sweeping action of the wind. According to statements of the personnel of the station and old residents, no cuttings with the exception of a few dead trees have been made in this stand for at least 30 years.

#### Grazing.

The area classed as a grazed woodland was subjected to grazing during the period 1932 to 1936. It was included in a pasture containing approximately 25 acres, and cows were allowed to graze in the area during the spring and winter months. No grazing was permitted in this woodland prior to 1932. The only noticeable effects of grazing are an absence of sassafras reproduction and a stunted appearance of young elm caused by browsing. The cover of grasses and herbs apparently has not been injured. Fire.

A fire burned over the entire watershed in the late summer of 1925 and this is the only known time that the area ever burned. The fire was very severe as it killed practically all the trees under 4 inches D.B.E. and left basal scars on most of the larger ones. A portion of the cemetery was burned in 1936,

and the state of t

killing brush and young reproduction growing around the border of the area.

#### Cultural Influences.

The past custom of annually scraping the cemetery of all vegetation has probably influenced both the rate and amount of soil and water loss from the area.

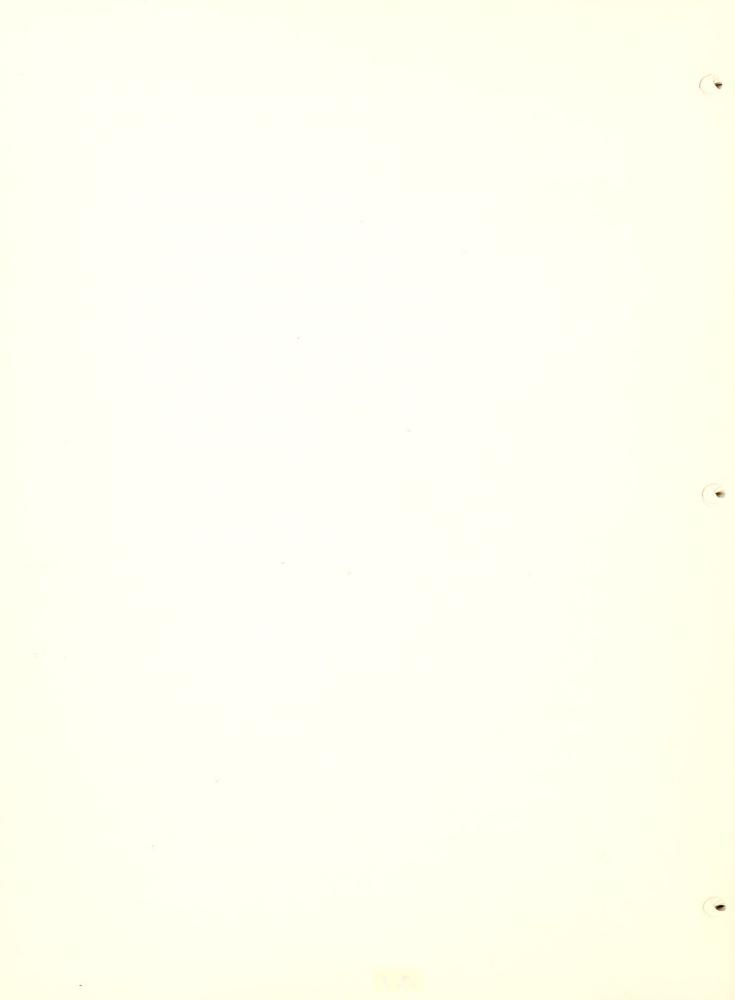
The two roadways, one traversing and the other bounding the watershed on the upper side, have undoubtedly affected the hydrologic characteristics of the area. This influence, however, is probably minimized as they are located on the upper side of the watershed and separated from the gaging station by the wooded area.

#### Ice Damage.

An ice glaze in January 1937 severely damaged the standing timber. Approximately 35 percent of the trees lost one-third or more of their crown area by breakage. The greatest damage was caused by the upper one-third of the crown breaking free of the tree. Stripping of side branches was also prevalent. Fungus has entered through many of the scars as 13 percent of the trees show defect from various diseases. Wine trees have died as a result of disease within the past 2 years.

## Woodland Description.

The woodland portion of the watershed contains a typical virgin stand of black jack - post oak type. It is uneven-aged in character but shows a decided lack of trees in the smaller



diameter classes. In addition to black jack and post oaks, which are the predominant species, the black oak shows a more rapid rate of growth and attains larger diameters than any of the other species.

The average height of the dominant trees is 60 feet. The average age of trees 4 inches D.B.H. is 15 years. The crowns are usually long, extending at least two-thirds the length of the tree. Many of the larger trees have wide spreading crowns extending almost to the ground.

Practically all of the oaks are of coppice origin.

Reproduction of these species is originating from both root and stool sprouts. Seedling reproduction of the oaks is sparse.

Red cedar is becoming established over the area and should form an important component of the stand within a few years.

There is a sufficient amount of reproduction present to maintain the stand at its present density but not enough to give adequate protection to the site. It is believed that the fire of 1925 combined with the ice glaze and grazing damage has caused the present scarcity of young trees and reproduction.

The approximate spacing of the trees is 25 feet. The density of crown cover is estimated to be three-tenths for the wooded portion of the watershed. Openings within the stand are covered with various grasses, weeds, and brush, the density varying with the size of the opening. A mixture of grass, weeds, vines, and brush apparently forms a better protective cover in the woodland area than grass or brush alone. In the grassland area the coverage is very dense with a mixture of both bunch and sod types of grasses.

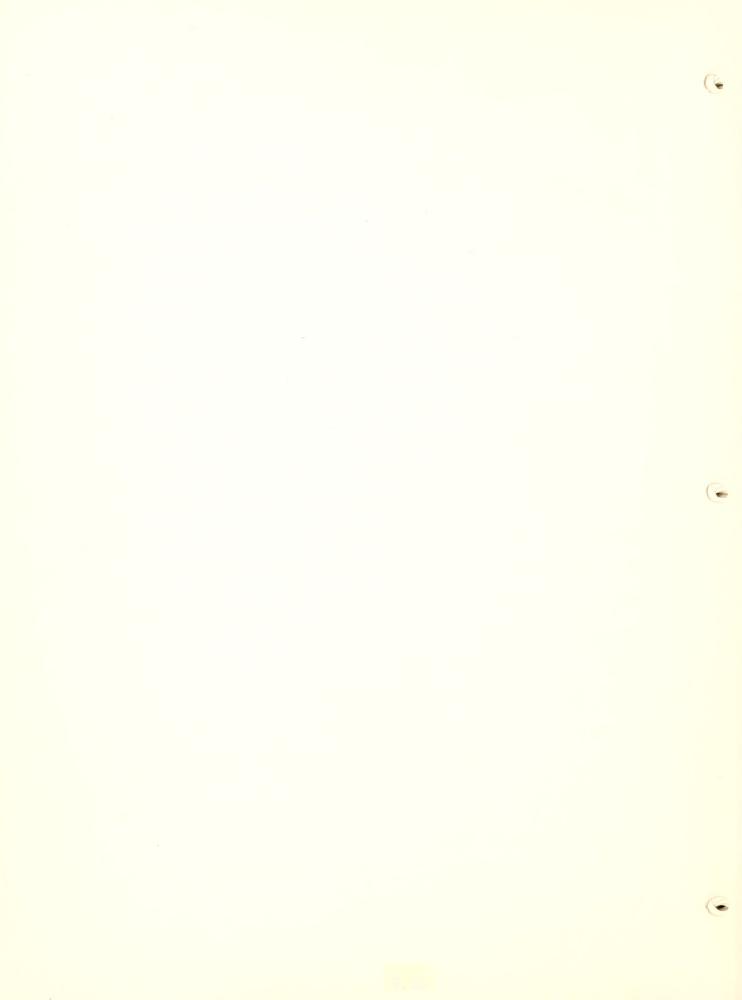


#### Ground Cover.

Litter has accumulated to depths varying up to 2 inches where vines or clumps have prevented its movement by the wind. In such areas there is a good layer of humus formed by the decay of small twigs and leaves. Approximately 11 percent of the entire watershed is classed as barren of litter or vegetation within 4 inches of the ground surface. The roadway traversing the watershed accounts for one-third of the bare area; the remainder is found under the low crowns of the larger trees where competition and shade prevent the establishment of low forms of vegetation. Wind sweep prevents the accumulation of litter in these spots. The bare areas are usually less than 7 feet in diameter. Litter and leaves cover approximately one-half the surface of the watershed, while grass and low vegetation cover over one-third. This coverage, plus that afforded by the brush and tree crowns, forms good but not maximum protection to the area. Table 4 presents information by types.

It is believed that the wooded area will become more effective when an understory of young trees becomes established. At present most of the stand is so open that wind currents prevent the normal accumulation of leaves and litter, thus retarding or preventing the formation of a humus layer. Information is summarized by types in table 5.

It is the opinion of the Superintendent of the Experiment Station that the density of cover on the watershed, principally



brush, has increased during the past few years. However, records of surface run-off and soil loss (table 6) do not show that the increase has influenced surface run-off. The amount of soil lost has actually shown an increase each year.



#### FORESTED WATERSHED, AREA 7.936 ACRES

Arkansas-Louisiana-East Texas Sandy Lands Conservation Experiment Station Tyler, Texas April 1939

Table 4 Surface Condition, April 19391

				Surface	Ground Cover		
Туре	Area	Percentage of total watershed	Ba Soil	re Rock	Not bare	Litter and Leaves	Grass and Leaves
	Acres	Percent	Percent	Percent	Percent	Percent	Percent
Grazed Woodland	4.730	59.7	8.7	.0	91.3	76.4	23.6
Ungrazed Woodland	1.159	14.6	27.72/	1.52/	70.82/	73.93/	26.13/
Roadway	.249	3.1	-	-	-	_	-
Cemetery	.763	9.6	5.1	.0	94.9	.0	100.0
Grassland	1.035	13.0	2.1	.0	97.9	.0	100.0
	7.936	100.0	10.7	92/0.3	89.12/	57.83/	42.23/

1Based upon 394 square-foot plots.

<sup>2</sup>Roadway included.

3Roadway excluded.

Table 5 Summary of Forest Inventory by Types

Table o Dunmaialy	or rolego invento	013 03 1320	5					
Marro o	Percentage of total watershed area	Basal area per acre	Trees per acre	Average D.B.H.	Growth Percent	Average spacing of trees	Surface Condition	
Type							Bare	Not bare
	Percent	Sq. Ft.	Number	Inches		Feet	Percent	Percent
Grazed Woodland	59.7	44.82	76	10.5	3.1	24.0	8.7	91.3
Ungrazed Woodland	17.71	65,66	73	12.8	4.1	24.1	29.21/	70.81/
Cemetery	9.6	36.77	59	10.7	3.9	27.0	5.1	94.9
Grassland	13.0	-	_	-	-	-	2.1	97.9
Totals and Avera	ge 100.0	39.71	61		3.2		10.91/	89.11/

1Roadway included

Table 6 Rainfall, Run-off, and Soil Loss - Station #3

Area - 7.94 Acres
Average slope - 7.5 percent
Hydrologic Records
begun 1933

Soil - Kirvin fine sandy loam

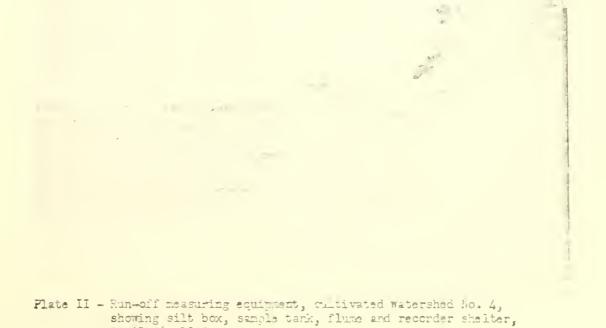
AeraPe Probe - 1.9 berceur		565	,000	Tine Sandy Toam		
Vee	20404033	Surfa	ce Run-off	Soil Loss in Run-off		
Year	Rainfall	Amount Percentage of total rainfall				
	Inches	Inches	Percent	Tons per Acre		
1933	48.10	0.23	0.48	0.028		
1934	36.85	2.95	8.01	0.039		
1935	50.30	1.72	3.42	0.082		
1936	35.60	2.159	6.06	1,040		
1937	39.28	0.067	0.17	0.016		
1938	31.91	1.147	3.59	0.141		

Records for rain of May 8-10 not included.





Plate I - Run-off measuring equipment, wooded watershed No. 3, showing silt box, sample tank, flume and recorder shelter, April 26, 1940.



April 26, 1940.

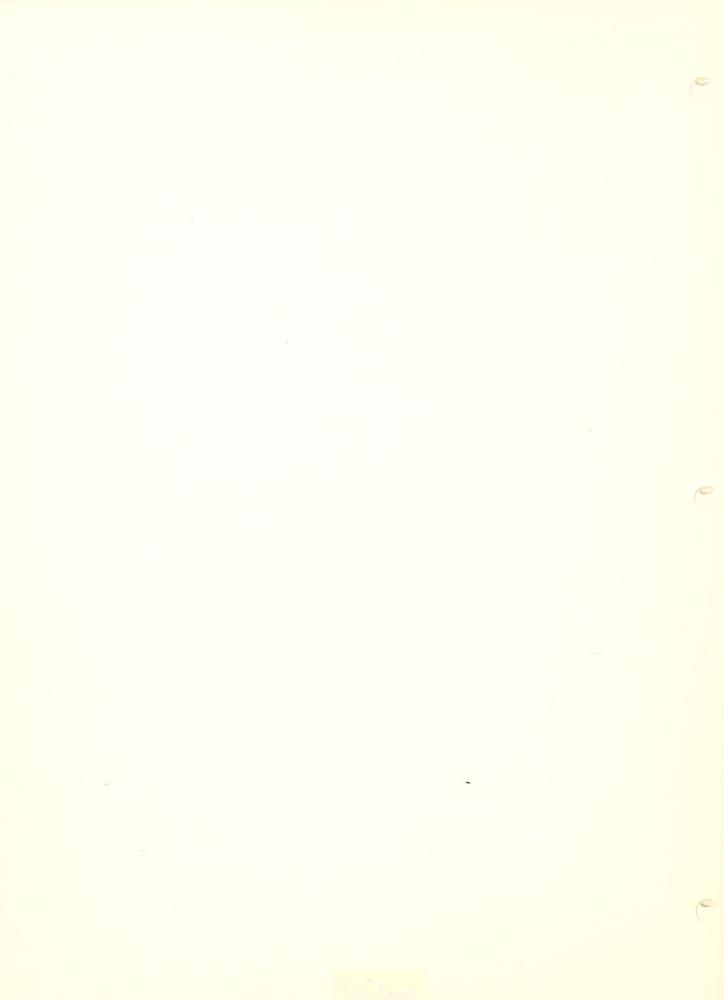




Plate III - Run-off measuring station No. 4, looking downhill. Vetch had been plowed under before preparation for planting cotton, April 26, 1940.



Plate IV - Cultivated watershed No. 4 showing gully formation above run-off station, May 26, 1939.





Plate V - Run-off measuring equipment, strip-cropped, watershed No. 5.

Strip above flume is oats with alternate strips of vetch plowed under in preparation for planting cotton, April 26, 1940.

Plate VI - Strip-cropped watershed No. 5 showing strip-cropped area just prior to cats harvest, May 26, 1939.

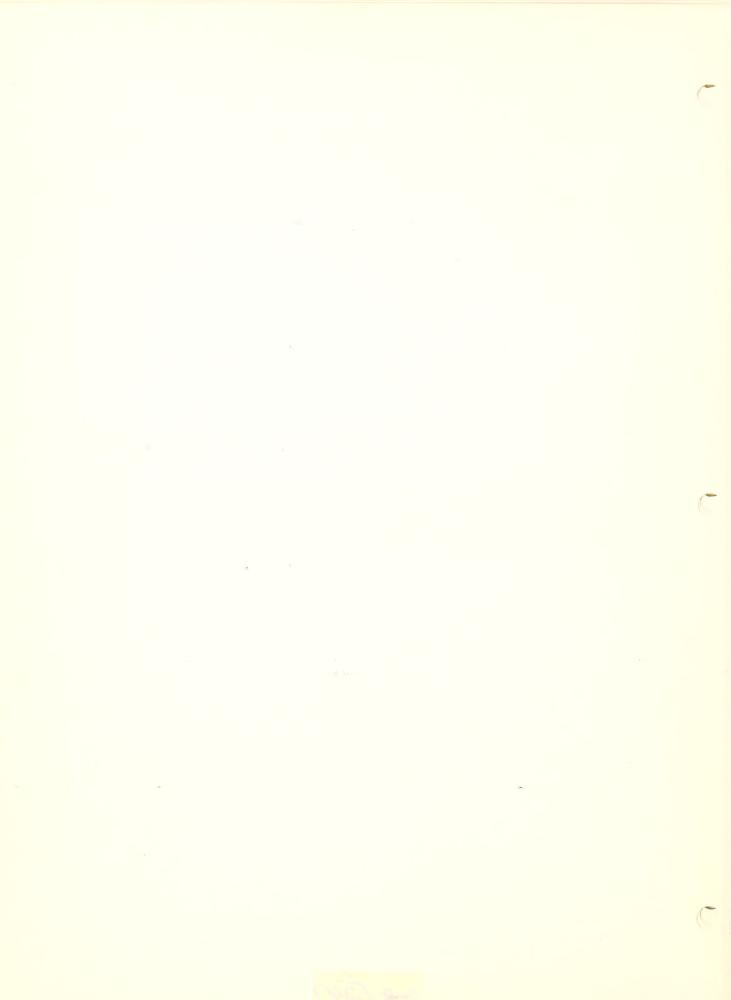




Plate VII - This area was retired from cultivation in 1932. It has an excellent cover of various species of grasses and herbaceous vegetation. Reproduction of tree species is noted in left foreground. Angle S. 88° W. April 6, 1939.



Plate VIII. The large Red Cedar trees in this area were planted as markers for graves. Annual "graveyard workings" prevented the growth of an understory of brush. Angle N. 48° W. April 6, 1939.

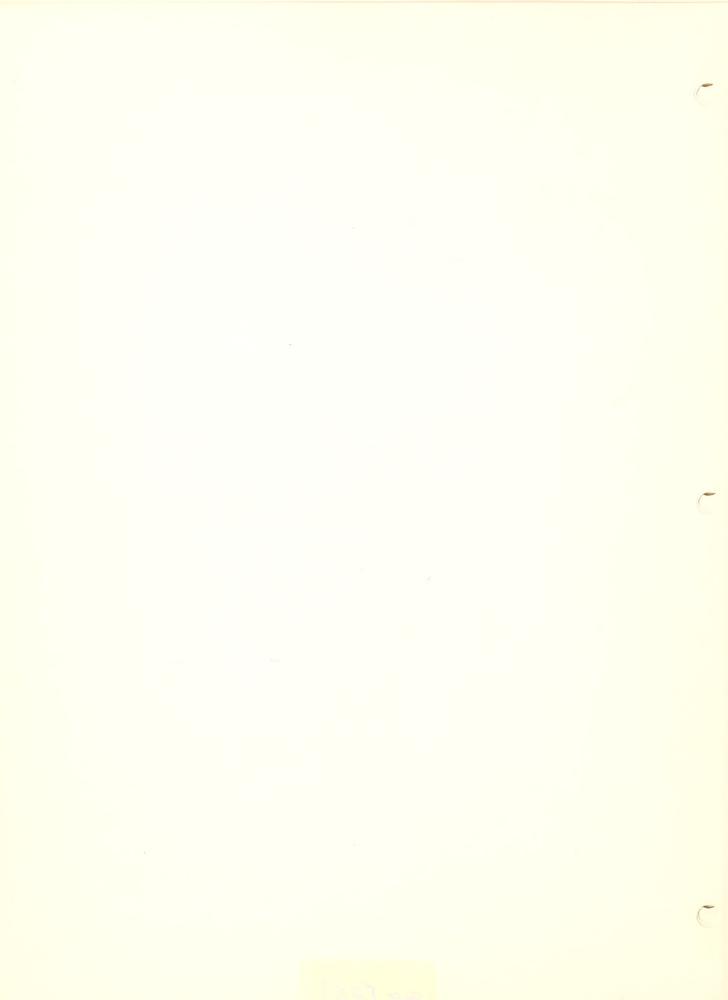
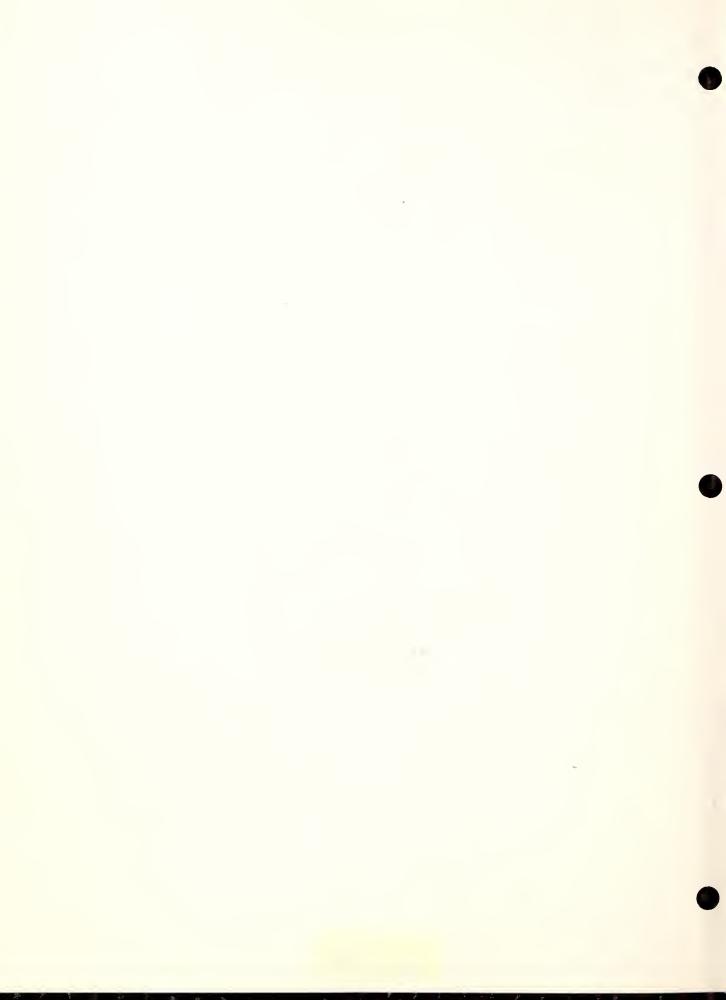


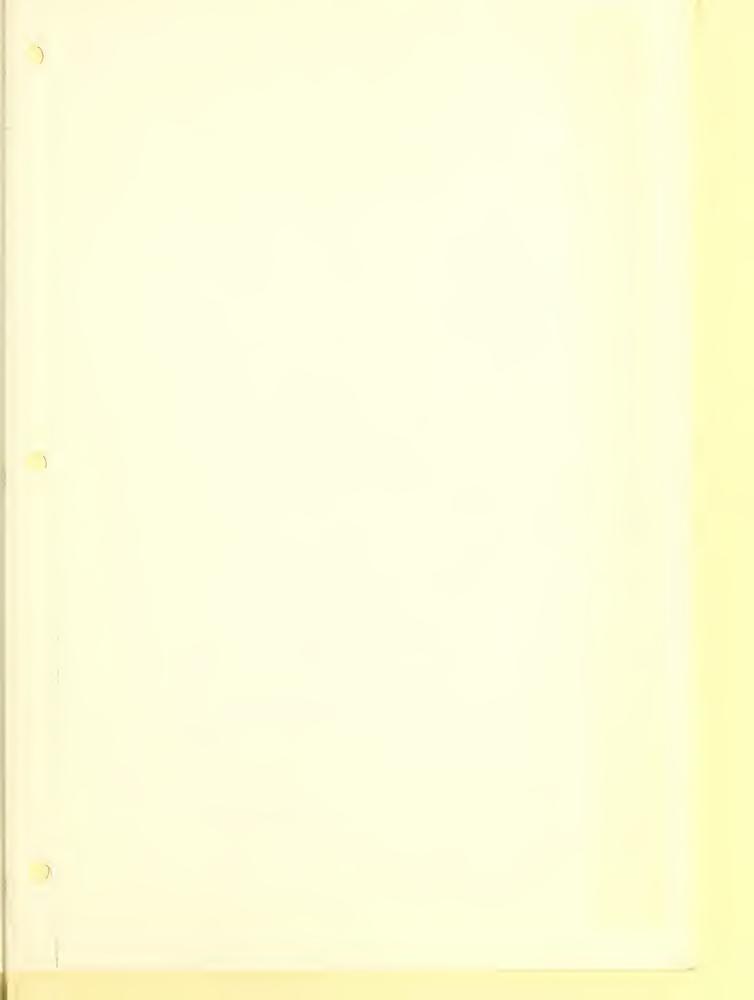


Plate IX - The lack of grazing has resulted in a luxuriant growth of brush and herbaceous vegetation. Angle N. 31° E. April 6, 1939.



Plate X - Scattered large trees with a comparative absence of trees in the smaller diameter classes are characteristic of this type. Angle S. 31° W. April 6, 1939.







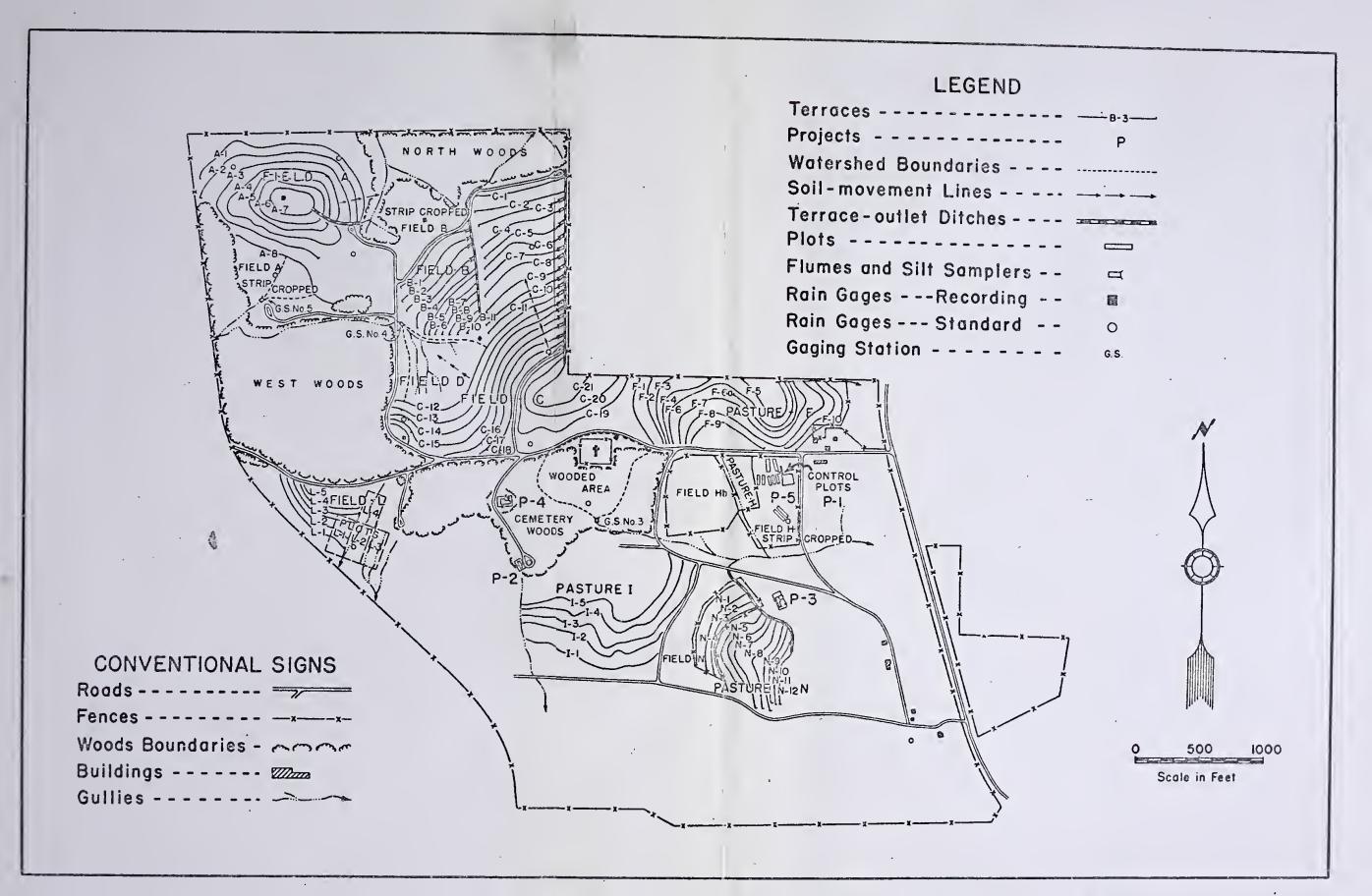
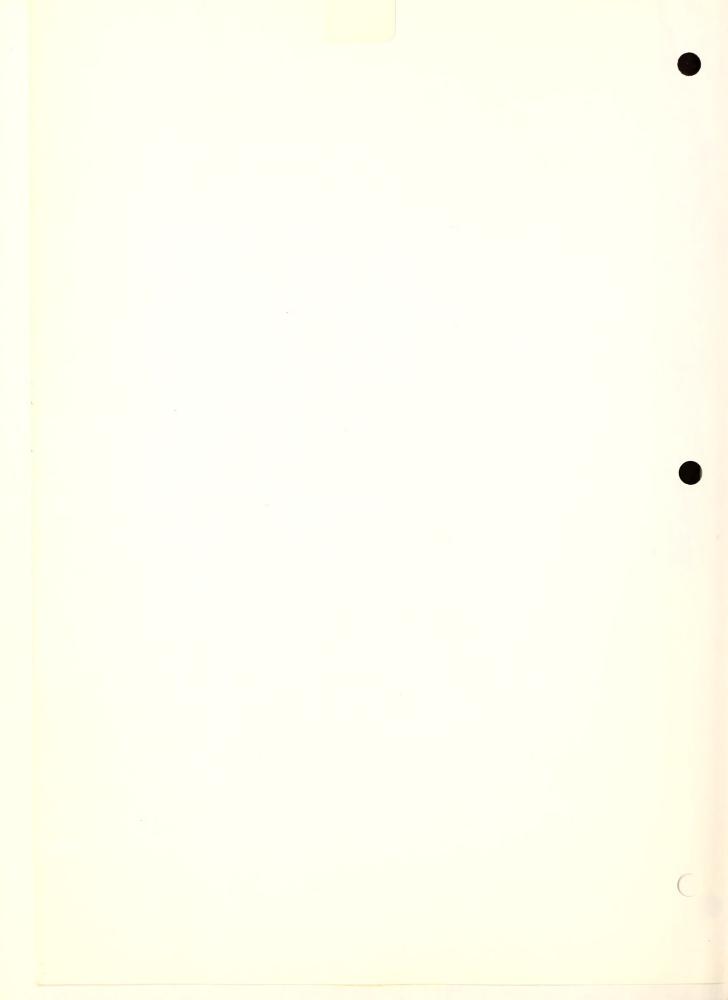
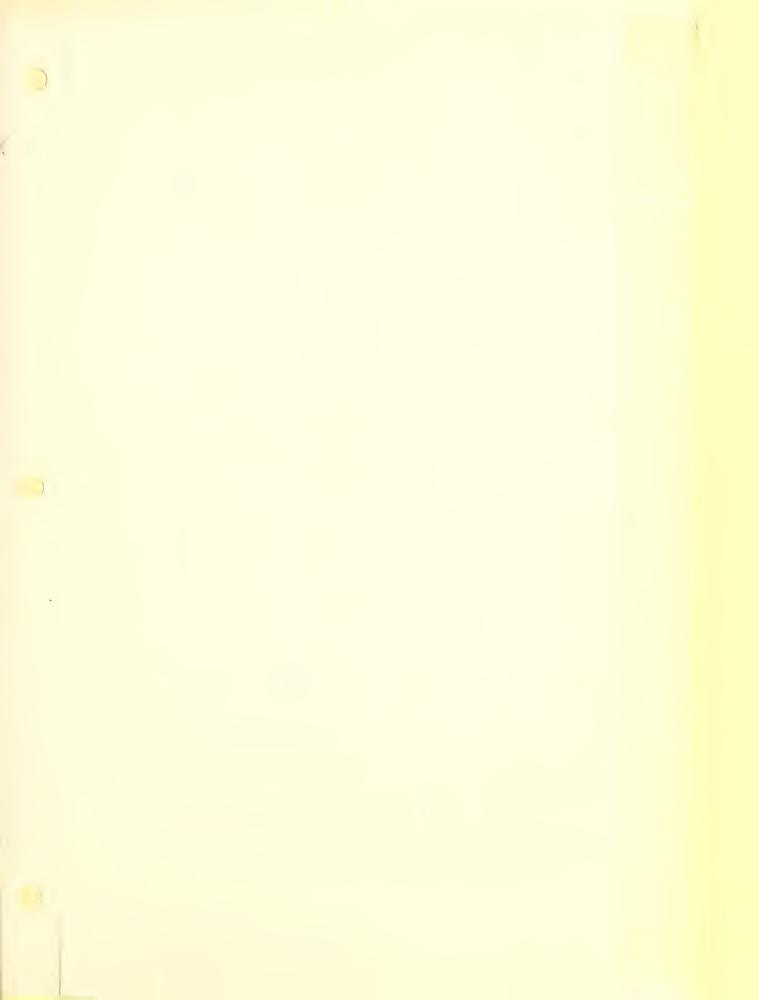


Figure 1- Map of the Soil and Water Conservation Experiment Station and the Texas Agricultural Experiment Substation, No. 2, Tyler, Tex.







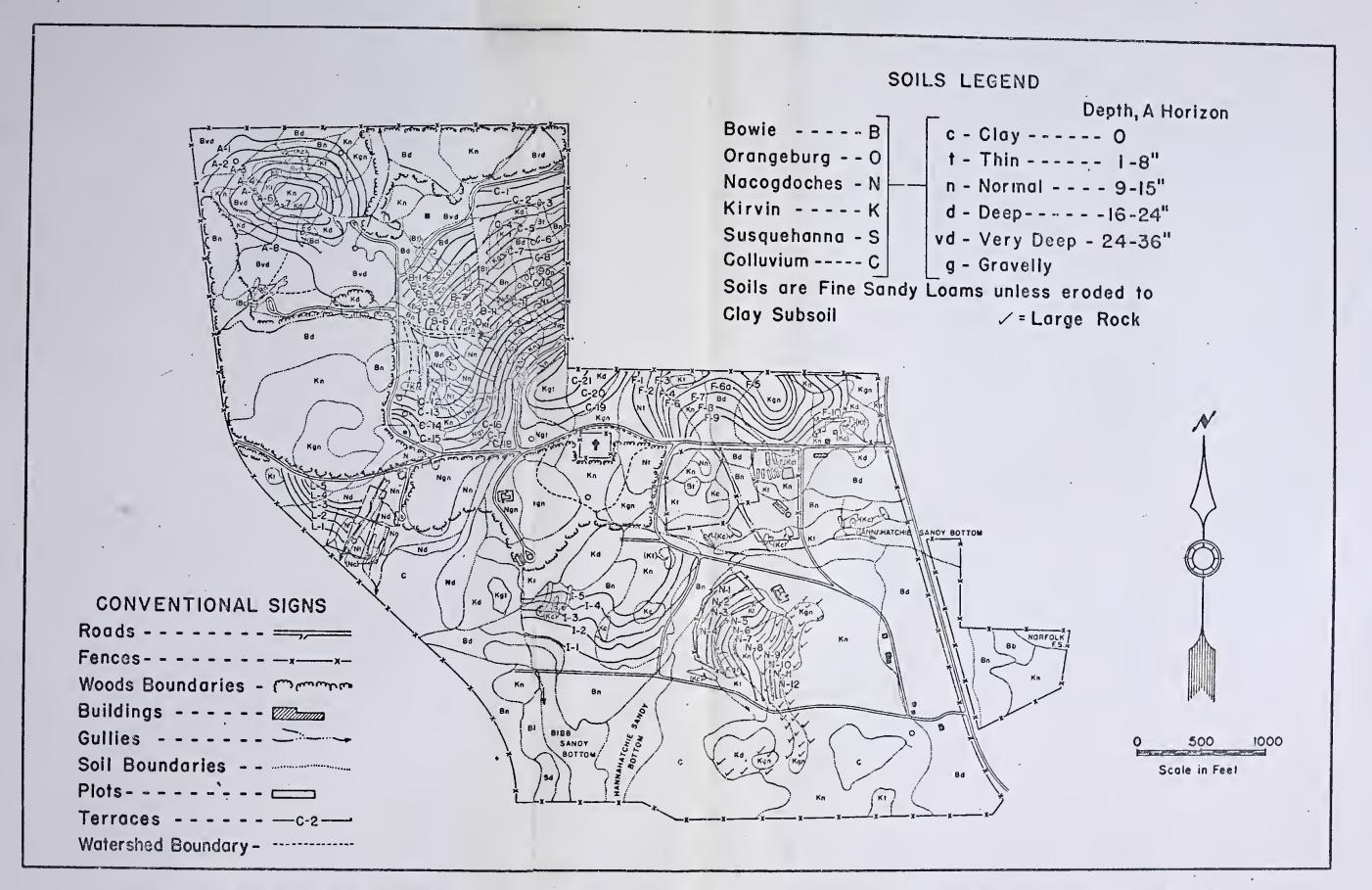


Figure 2.- Soil Map of the Sail and Water Conservation Experiment Station and the Texas Agricultural Experiment Substation, No. 2, Tyler, Tex.

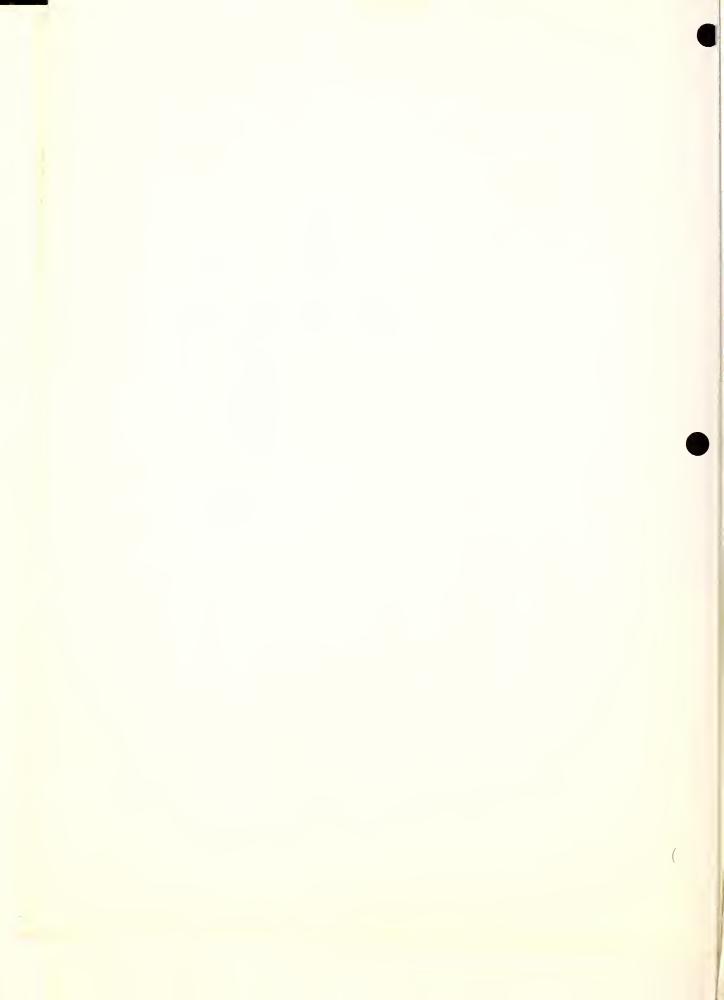


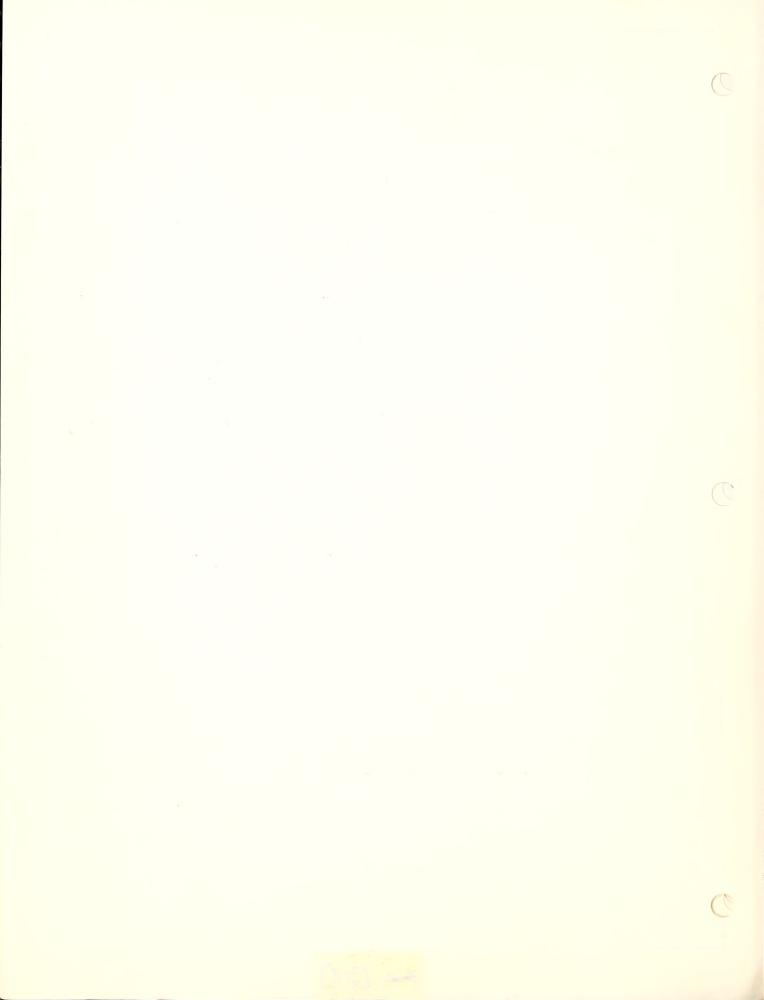
FIGURE 3.- MAP OF WOODED WATERSHED NO. 3

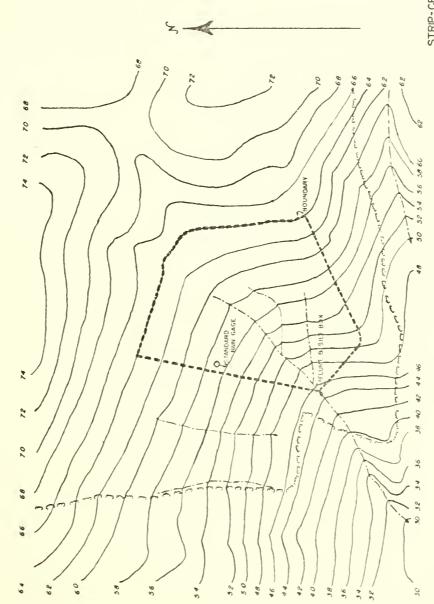


FIGURE 4.- MAP OF CULTIVATED WATERSHED NO. 4

ARK-LA-E. TEX SANOY LANDS CONTROTON EXPERIMENT STATION

TYLER, TEXAS AHEA 6.052 AGRES

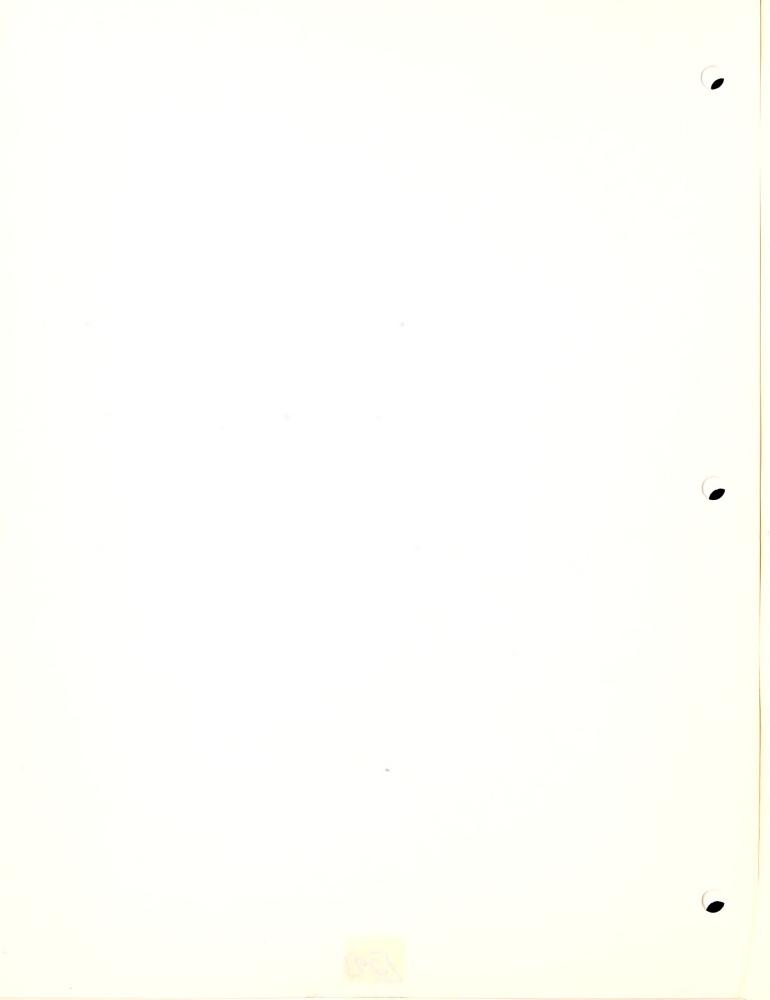




STRIP-CROPPED WATERSHED

ARK-LA-E-TEX SANDY LANDS CONSERVATION EXPERAMENT STATION
TYLER, TEXAS
AREA 25.0°, ACHES
SCALE\*





## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

	PROJECT SCS Experiment	CS Expe	SCS Experiment Station, Tyler, Texae	tation.	Lylar, Is	-				-									
1.   1.   1.   1.   1.   1.   1.   1.		War	Rash Etc				RAIMPAL	-			TEMPERA (degrees	4 6 7		RUN-OFF					The state of the s
1   1   1   1   1   1   1   1   1   1	Pare 10 c	Number	A ress (as y es)	Uage Na	Bagan (bout)	Duration (minutes)		2 0	thingus lavamers the minutes inches are bour)	30 minutes nebes per leng)	Masimum &				MARIN Cu ft. sec.		Rainvall Minen Run-ory (inchasi	fur fer acres	CONTIBION OF
4   6.383   1-7-C   1.5842   61.5   6.043   6.142   6.042   6.044   6.045   6.045	=	i R i	(3)	(4)	(8)	(9)	(2)	(8)	(a)	(10)	Ē		H		(13)	(16)	(17)	(114)	(11)
1.   1.   1.   1.   1.   1.   1.   1.	den 4-5	-	6.383	1-r-c	1,55512		06"0	0.72	0.48	0.1			RO						gver crap since fall
	Jun .10-11	4	6.383		101101	920	0.43	0-12	0,12				dh.						1930 RV® 3"
4   6.303   1.7°   6.0213   47°   6.0224   47°   6.043   6.0	Jun. 17	4	6.383	1-F-C	111001	780	0.34	0.12	80.0	0.0		1	021						
4   6.133   1.5°C   2.0224   476   0.55   0.460   0.450   0.450   0.451   0.505   49-35   NNO   NNO	Jeb.l.	4	6.383	1-F-C	LOISSELL	1100	0.48	0.24	0,12	11			RO					}	6.A 20
4         6	a .de	4	6.383	1-F-C	280241		0.58	03.0	0.43	0.44	1 :	1	(RO						
4         6.383         1.F.C         3130R         315         0.24         0.10         50         46         NIO           4         6.383         1.F.C         2130R         275         0.77         1.22         0.34         0.46         65         46         NIO           4         6.383         1.F.C         2130R         276         0.77         1.22         0.24         0.24         4.44         NIO           4         6.383         1.F.C         2130R         150         0.64         0.24         0.24         4.44         NIO           4         6.383         1.F.C         2130R         1.50         0.64         0.20         0.24<	Feb.13-14	*	6.383	1-F-C	3435FM		0.64	0.43	0.32	0.30		-	RO					1	
4         6.2843         1.F.C. 21301M         276         0.24         0.46         65         46.         MRO           4         6.2843         1.F.C. 21301M         100         0.64         0.24         0.18         0.424         44.41         MRO           4         6.2843         1.F.C. 21321M         100         0.64         0.24         0.22         24.21         43-35         MRO           4         6.2843         1.F.C. 21321M         1630         0.61         1.00         0.24         0.22         54-51         43-35         MRO           4         6.2843         1.F.C. 21321M         473         0.60         0.60         0.24         0.26         60         40         MRO           4         6.2843         1.F.C. 21421M         473         0.60         0.60         0.18 <th< td=""><td>Feb. 15</td><td>4</td><td>6.383</td><td>1-F-C</td><td>343017</td><td></td><td>0.31</td><td>0.24</td><td>0.16</td><td>01.0</td><td>+</td><td>11</td><td>CRO</td><td>Providence A AA</td><td></td><td></td><td></td><td></td><td></td></th<>	Feb. 15	4	6.383	1-F-C	343017		0.31	0.24	0.16	01.0	+	11	CRO	Providence A AA					
4         6.3843         1-F-C         2.130141         1080         0.24         0.24         0.18         39-4         4-4-1         NRD           4         6.3843         1-F-C         6.000A         1500         0.26         0.24         0.24         44-41         NRD           4         6.3843         1-F-C         6.000A         1500         0.26         0.28         0.26         68         40         NRD           4         6.3843         1-F-C         0.000A         0.61         1.08         0.28         0.26         68         40         NRD           4         6.3843         1-F-C         0.000A         0.61         1.08         0.26         68         40         NRD           4         6.3843         1-F-C         0.000A         0.60         0.28         0.26         711100         0.500A         0.533           4         6.3843         1-F-C         0.745A         0.00         0.28         0.24         0.744         0.740         0.504         0.54         0.24         0.540         0.540         0.540         0.540         0.540         0.540         0.540         0.540         0.540         0.540         0.540         <	Feb.	4	6-383	1-i-C	10:27AM	276	0.71	1.32	0.84	0.46	1		IRO					1	Ry# 5"-6"
4         6.383         1-F-C         6.00AM         1530         0.61         0.20         0.24         40-A         MBO           4         6.383         1-F-C         6.00AM         1530         0.61         0.60         0.26         66         40         MBO           4         6.383         1-F-C         12.152PM         473         0.51         0.68         0.26         66         40         MBO           4         6.383         1-F-C         10.00PM         60.0         0.61         1.80         0.64         70-67         52-50         71.12AM         61.50AM         0.783           4         6.383         1-F-C         6.344         2.25         0.73         1.20         0.64         0.64         70-67         52-50         71.12AM         61.50AM         0.783           4         6.343         1-F-C         1.45PM         1.00         0.22         0.24         0.18         51-48         44-43         MRO           5         6.343         1-F-C         1.45PM         1.00         0.25         0.24         0.18         0.24         0.18         0.24         0.24         0.18         0.24         0.24         0.24         0	Jeb.27	4	6.383	1-F-C			0.64	0.24	0.24			-	(HO				- control of the cont		Rye 6"
4         6.383         1-F-C         12152124         473         0.684         0.266         68         40         ARD         ARD           4         6.383         1-F-C         10102LL         600         0.61         1.08         0.26         70-67         52-20         711144         815044         0.583         711244         0.593           4         6.383         1-F-C         10102LL         600         0.61         1.08         0.18         6.18         51         33         NRD         0.594         7.11244         8.5240         0.593           4         6.383         1-F-C         1.5744         2.35         0.726         0.18         51-8         7.3         NRD         0.594         4.4-83         NRD         0.18         0.24         7.3         NRD         0.594         4.4-83         <	Mass - 1	41	6.383	1-F-C	MEDO12	1530	0.61	0,40	0.36				CHO						Rye 6"
1	Mars 6	4	6.383	1-K-C	L2152174		0.51	0.84	0.48	0.26			180						
4         6.343         1-F-C         6.135AU         235         0.73         1.20         0.664         0.48         61         45         NRD           4         6.383         1-F-C         2.155AU         260         0.224         0.18         51         33         NRD           4         6.343         1-F-C         1157PU         700         0.75         0.24         0.18         55-49         44-43         NRD           1         4         6.343         1-F-C         1145PU         70         0.24         0.18         55-49         44-43         NRD           1         4         6.343         1-F-C         1145PU         10         0.12         0.24         0.18         55-49         44-43         NRD           1         4         6.343         1-F-C         1145PU         10         0.24         0.24         0.18         55-49         44-43         NRD           2         6.343         1-F-C         1145PU         0.25         0.24         0.24         0.24         0.39         NRD           3         6.343         1-F-C         2.100PU         71.28         0.20         0.24         0.10         60-59 <td>Mar . 1 . ()</td> <td>*</td> <td>, 6.383</td> <td></td> <td>TOYONER</td> <td>009</td> <td>19.0</td> <td>1.80</td> <td>1.08</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.54</td> <td>TALLAR</td> <td></td> <td></td> <td>Rye plowed under Mar. 7</td>	Mar . 1 . ()	*	, 6.383		TOYONER	009	19.0	1.80	1.08						0.54	TALLAR			Rye plowed under Mar. 7
4 6 6.383   1-F-C 2.55AM 260   0.28   0.60   0.28   0.18   51   33   NRO	Mar. 27	4	6.343	1-F-C	6135AU		0.73	1.20	0.64	D.48	1		(RD						Freduction in the tone par acre.
1 4 6.343 1-F-C 11571M 780 0.75 0.36 0.24 0.18 55-49 44-43 NRO	Mar.	*	6.383	1-r-c	2 x 5 5 A M	260	. 0.29.	09-0	0.28	0.18			RO	4			The state of the s		Bare, lugun
4 6.383 1-F-C 14451M 10 0.12 1.08 0.24 0.25 73 57 NRO	M.45-31	ć,	6 - 143		115711	780	27.0	0.36	0.24			-	IRO	A contract of the contract of					
1.0	Apr. U	4	6.343	1-F-C	14512	10	0.12	1-68.	0.48	0.24			aro .						Becently plowed
19- 0 4 6.343 l-F-C 6.25HW 2HO 0.85 l.08 0.66 77-78 60-58 NRO.	Apr - 1::	-9	0.383	7-1-4	6×12FW	89	0.24	09-0	0.52	0.34	,	Ħ	IRO						Recently disked
4 6 6.383 1-F-C 2.00FM 715 0.31 0.24 0.12 0.10 60-59 48-49 NRO  4 6.383 1-F-C 2.159FM 16 0.34 2.16 1.16 0.69 79 59 3:05FM 4:43PM 0.026 0.11 5:30FM 1.354  5 4 6.383 1-F-C 3:00AM 273 0.20 0.24 0.24 76 61 NRO  5 4 6.383 1-F-C 6:221M 96 0.06 0.24 0.12 0.08 76 51 NRO	Apr.19- 0	4	6 - 303	1-r-c	8125170	280	0.85	1.08	0.88			-	IRO.						
4 4 6.383 1-F-C 12128FM 257 1.38 0.96 0.80 0.56 67 55 4:12PM 7:40PM 0.026 0.11 5:30PM 1.354  5 4 6.383 1-F-C 2159FW 16 0.26 0.28 0.24 76 51 NHO  5 4 6.383 1-F-C 6:221M 96 0.06 0.24 0.12 0.06 76 77 0.10 NHO	Apr. of 3= 6	4	6-383	1-y-C	2 + 0 0 2 2	71.5	0.31	0.24	0.12				Out				1	-	Loose, cotton not up
4 4 6.383 1-F-C 2.59FW 16 0.34 2.16 1.16 0.69 79 59 3105FW 4:43FW 0.629 0.27 3:19FW 0.311 Cotton just up 5 4 6.383 1-F-C 3:00AW 273 0.20 0.24 0.24 76 61 NHO 5 4 6.383 1-F-C 6:22:M 99 0.006 0.24 0.12 0.08 76 61 NHO 6 6.383 1-F-C 6:22:M 99 0.006 0.24 0.12 0.08 76 61 NHO	Apr	4	6 -383		12,28130	257	1.38	96-0	0.80	95.0					0.11	51302			Plowed, cotton emerging
5 4 6.383 1-F-C 3100AM 273 0.20 0.24 0.24 76 61 NHO COLLON UP, 6.000 5 4 6.383 1-F-C 61221M 99 0.06 0.24 0.12 0.08 76 61 NRO	May 4	4	6.383	1-F-C	2 4 5 9 PM		0.34	2,16	1.16	09.0	-	-			0.27	34148			Junt
5 4 6.383 1-F-C 6.221M 99 0.06 0.24 0.12 0.08 76 61 NRO	Kay 5	4	6.383	1-8-C	3 LOUAL		0.20	0.24	0.24	0.24			THO THO				i		npo cond
		4	\$ #3 R3	1-F-C	6 1221 M		90.0	0.24	0.12	0.08	1	11	IRO						pooR da



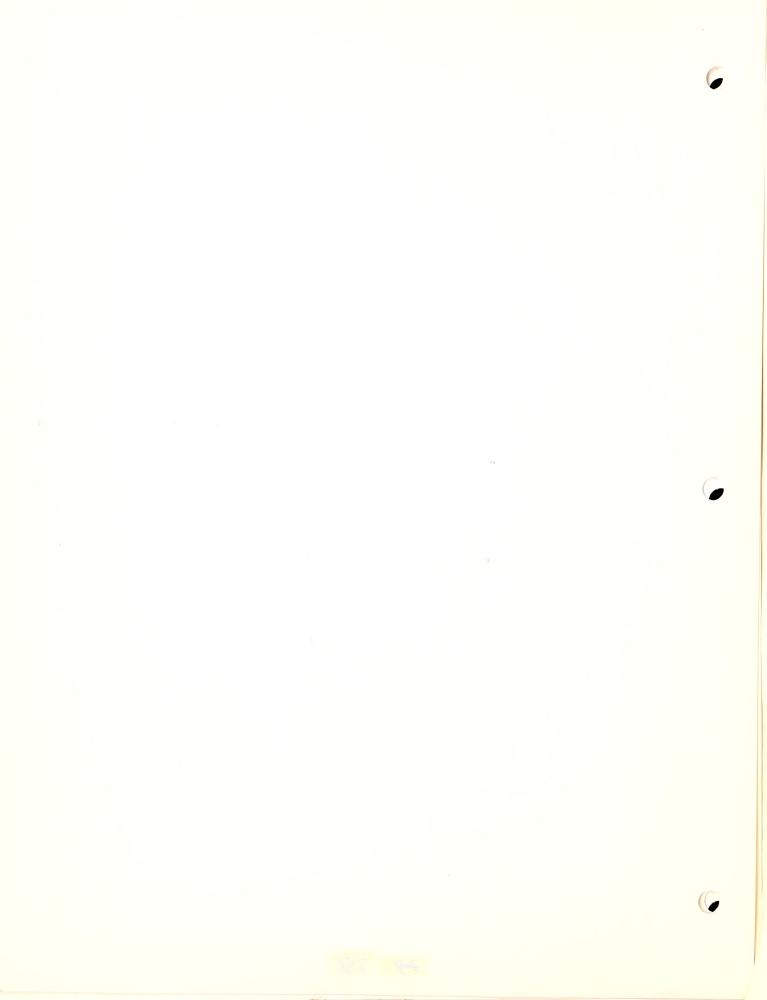
Borton v. e. Blacken

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Month May, Jun, Jul, Aug, Sep., 1931.

SHEET + 2 OF 3 Page and Education, Cyler, form RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

The second secon	Chairman of Waterings		(10)	Cotton 2"-3"	Cotton 2"-3"	Cotton 2"-3"	Gotton 4"-6"	Cotton 4"-6"	Cotton 5"-5"	Cotton 10"-14"	Cotton 10"-24"	Cotton 10"-24"	Cotton la"-Lu"	Cotton 14"-28"	Cotton AB"-30"	Cotton 18-30"	Cotton 20"-30"	Cotton 22"-30"	Cotton 224-30%	Cotton 4"-30"	Cotton 24"-30"	Cotton 24"-30"	Cotton 23"-30"	Cotton terms picked
	Bir Law (foru per gare)		(8.9)																					
	RAINFALL MINUS	CLACTIONS	(87)					1.042	1.284						1			1.636	0.301	0,628			0.375	1.208
		7.1110	(18)					4 1 L GFM	3x 001-14		'			1				TASSAW.	11154M	3:46AM		1	2 117FM	1,49AM
8	MARINEM BATE	Cu ft. ave.	(4.6)					6.33	21,10					1				0.71	0 -82 1	60.0	11		0.15	0.03
RPH-OFF	A section 4	(Justen)	(4.4)				1	0.358	0.826					. }	1		ř t	0.034	0.019	0.002			0.005	0.002
	and the same of th	(pont)	(43)		1			WILL 9	4x45PM				,					6.13AK10.50aM	1:51/W12:21FM	4 100 AM			2133EH	1:05AM 1:23AM
	_	(huur)	(12)	NRO	NAO	NRO	NHO	4 108FM	2 2 5 1 PM	NRO	NR0	NRO	NHO	NRD	NRO	NRD	NRO	6113AK	11:51AM	3:41.6%	NRO	NRO	2114PL	1,05AM
Table satisfied (dograms F)	_	Martenara Miniman	=	09-69	09	65-09	19	67	5, 64-68	99	70	7.5	74	74	7.7	7.1	61-63	54	70	99	74	19	99	62
Taber		-		76-73	7.3	73-74	83	88	98-69	94	1.6	92	E 2	45	94	88	89-84	82	84	87	88	83	78	000
!	7.7	30 minates (Inches per hine	(10)	0.84	0.16	0.08	0 = 34	2,12	2.70	0.16	0.76	04.0	90*0	01.0	0.82	0.46	0.24	1.48	09*0	0.76	0,20	0.12	0 •68	99.0
	MARINUM INTRINSTY	hour) (tholice per hinz) (inches per hinz)	(a)	0.88	\$2°0	0.12	0 =64	3.00	3.30	0.16	0.92	59°0	80*0	0.12	1.12	0.92	0.48	1.76	1.16	1.36	0.32	0.50	1.36	88*0
97	M	(inches per hour)	(N)	96.0	0.72	0.24	1.56	3.60	4 • UB	0.24	1.20	0.72	U-12	0.24	1.68	2.40	96.0	2.16	2.76	2.28	0.36	0.24	3.60	1.20
HAIMPALL		Amount (tuchm)	(2)	29*0	0.23	01.0	0.18	1.40	2.11	U.32	0.43	0.455	61.0	6.13	05.0	95.0	95.0	1.87	0.32	0.63	0.14	0.26	6.38	127
		(minutes)	(8)	12, Noon 1470	W 145	68 W	M 27	T BO	263243 1020	44051% 223	- 75 %	61451W 140	M 195	360	240814 100	12.534	# B52	K 517	M 73	M 185	£ 40	193	245	47 47 47
t		Mayard On-or)	è'		5.352% 145	11.2017	2103AM 27	344020 80			Salzin 32	64450	1445aM 195	9110AM 360		9145AN 534	5.30.1 B52	6405AK	11:34AM	3.0003	7 1 U Ozak	BIOZNI 183	1-t-C 11:25AL	1-F-C 12 1 CAM
		0 Mg N	-	1-E-C	7-8-0	1-F-C	1 - F - C	1-1-0	1-F-C	1-F-C	1-Y-C	1-F-C	7-3-1	1-1-0	1-1-C	1-7: 4	1-y-C	1-F-C	1-F-C	1-F-C	9 4-1	1-F-C	1-4-C	1-F-C
WAFFKAIRD	1	Area (ur pas)		.363	6.383	6.383	c. + db3	0.383	6.JB3	6.383	£82°°	6.383	0.4483	6.383	6.383	1 3833	. 3813	6.383	D - 383	6.483	b #383	6.383	6.383	6 38 3
*		Aut her	4	÷	-4	4	7	₹	7. 4	랟	9	7	7	478	-2"	ď	egi.	4	J	4	4	4	4	7
p-	Pres	161	-	4 R.S	May .	Kay o	ปุ่นโรย	June !	June	July	Jus	July	, , , , ,	Jul	July	, tul.	Aug	Aug	Aus.	Austra	Sej	Oct 1	Uct.	Set.



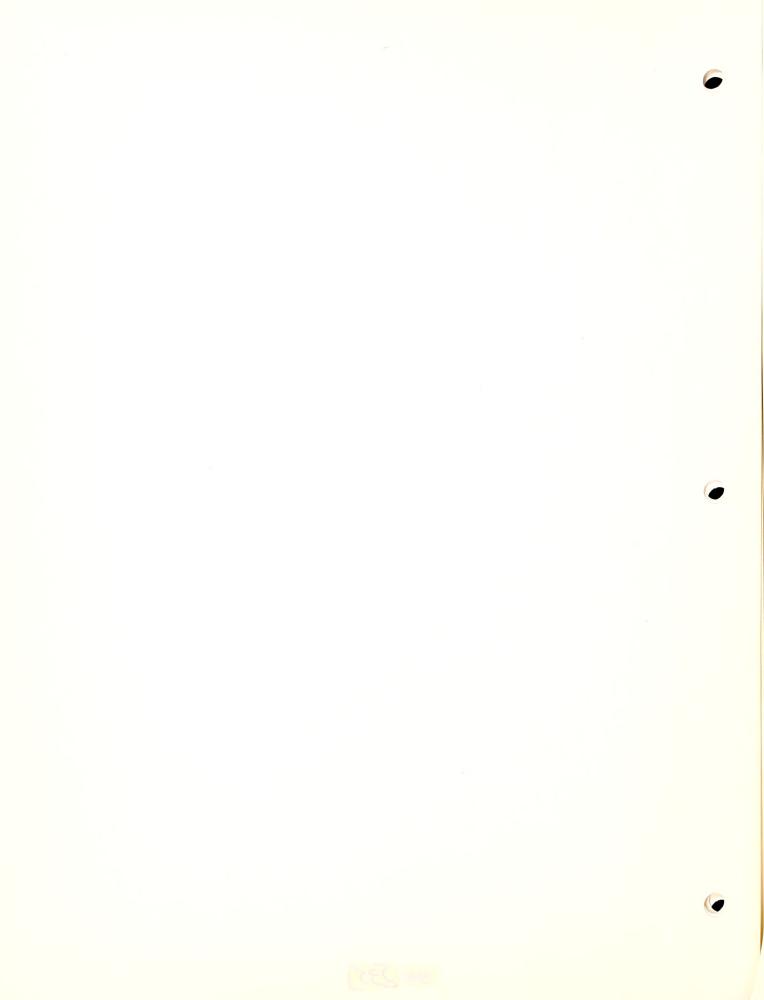
# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

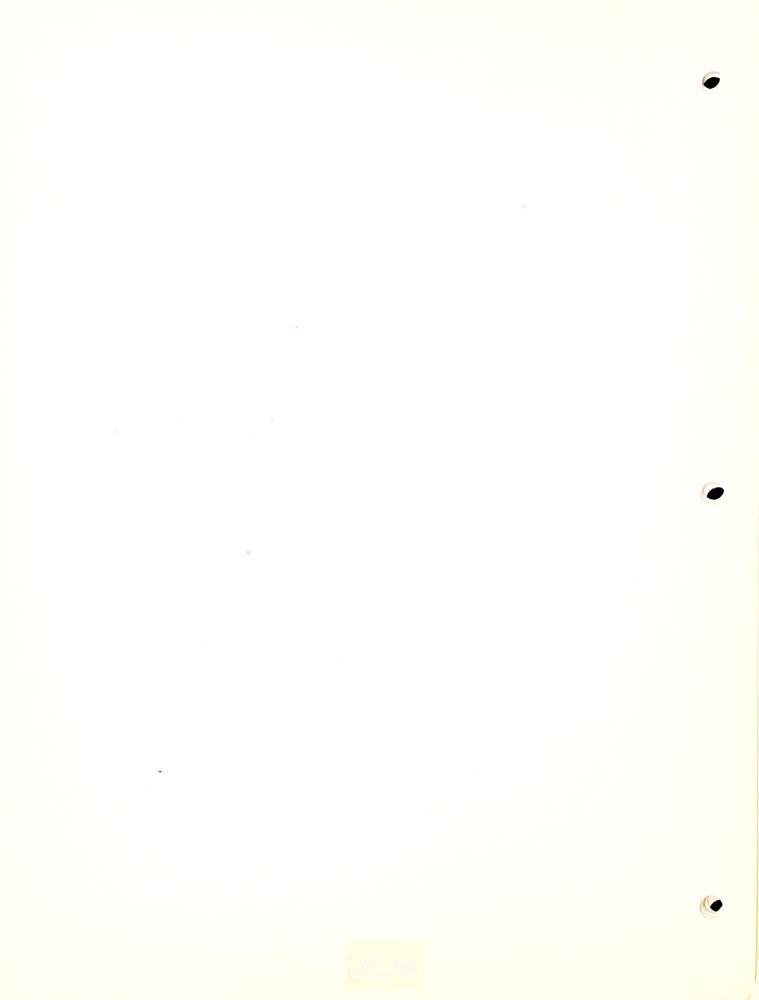
19.31

Month Opta Nova Dega

BHFKTR outs, some emerging oats plunted 12th outs cover, 3"-6" bare 3" -4" Oathy 2"m3" and cate, 3"a4" onts, mail ORIS, BERIL oats, 1"-2" oats, 1"-2" oats, 1"-2" oats, 2"+3" outs, 2"-3" 0ate, 3"-4" 20-40 34-4" 3 Fallow, loose, Oata, Cotton stalks puw pur wind And Byn wand MAG Part of pun We and Bya wad Ryo and Hya and Rye and Ryn mid Strr Loss (tons par acre) RAINFALL MINUS RUN-OFF (Inches) 1.043 0.441 1.935 0.475 0.847 1.195 (17) 0.16 95.0 415641 1.3272 712517 9 406AM 1.07PM 2 a05Pm \$ 450AN Time MAXIMUM MATE 0.13 0.0 0.08 010 1.8B 12.01 3/0-93 Ou ft me. (18) 0.017. 0.410 0.003 6 ZO O 0.025 0.010 (14) 0.005 0.165 Amount (inches) 7445174 740317C10125FW 2 x 000 M 1400rm 2430rm 40-4110 . 444 1 3 . 56 PM 5135AM 5137aM 7105aM 1/ Doc- 16, 1961 Endad (13) TA22PM 9.03AM 416AM Pages (bour) NAO NPO NRO NHO N.Fa MRO OUN MRO MRO NED NEO MRIO NRO 43-60 41-37 49-59 36-42 42-46 54-41 37 Courses F) 19 99 99 28 52 44 4.2 4 42 44 58 52 2-45 7.55 64-91 0-11 9-71 HP-9 8-53 77 69 91 80 73 69 63 74 Qi V 43 53 23 78 17 18 minutes W minutes (Inches per lucia 0.40 0.16 0.08 0.30 1.48 BUL O 0.10 94.0 0.28 0-14 0.92 91.0 90-0 0.24 1.86 0.32 0.12 0.08 0.26 Maximum terresorry 0.40 0.16 0.48 0.36 08.0 0.48 01-0 0.16 0.08 0,42 0.16 0.36 80.0 0.48 3,40 0.24 2.64 6.12 0.12 1.84 finction per hour) (f 09-0 3.60 0.24 09.0 0.48 0.72 0.12 0024 0.48 09.0 0.24 0 044 4.32 0-24 0.24 0.72 0.12 1,32 3.84 1-32 Dah 2 RAINFALL Amount (inches) 2-10 0.44 0.50 60"0 0.19 0.04 0.29 0.85 99"0 1-20 0.16 0.49 0.12 T0.0 0.17 0.97 0.04 0.14 1.66 0.52 Duration (minutes) 2450 1470 1000 1325 4:28AM 1715 125 140 115 4130AN 330 214 565 835 280 408 445 100 154 18 08 80 S PRODUCT 5CS Experiment Station, Tyler, Taxes 411557 12:15:58 2145126 315543 TACBHE T LLISTAN 2116AM 5150AK LAJOAM TO SOAM 51451 A \$10719 9155AR 512012 2 4 35 FT 5125170 3 1 2 0 AM 4.1021A 5 & 20AM Bour) Ongs No. 1-1-C 1-F-C J=1-1 7r P-4 7-P-4 T-P-4 7- P-4 Las Juc 1-1-4 1-P-4 1-P-4 RECORD SPINE R 1288 6.363 6.383 6.383 6.383 6.383 6.383 6-383 £85.3 6.383 6.383 6-383 6.383 6.383 6.383 6.383 6-383 6.383 6.383 6,383 6.383 A 198 (BOX 88) 6,383 5.7 A. 1. 2 Oct : May. Mov . Nox. Mov. Dac. Dec. 1931 NOT . MOVE



		(03 dune 13 dune 13 (03 (03 (04) (04	GRICULTURE JICT STATSUN STATSU
		Freedray Arm (fac.)  Freedray Rain (in.)  Gunta born  Guntar (house)  Freedray (and A etc.)  Boll (rajor type)  Antique  Percent of 4rm  Perce	UNITED STATES DEPORTED INTO AGRICULTURE SOLL CONSERVATION S. VAICE H H. OR NATEL, CHIEF SOLL CONSERVATION SAFERIAR STORM NO
			S The D Company
ŧ		J.	
	6 5 - 9 - 0 3 5 45 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
	3200231 1 TEVTE 10211 2		



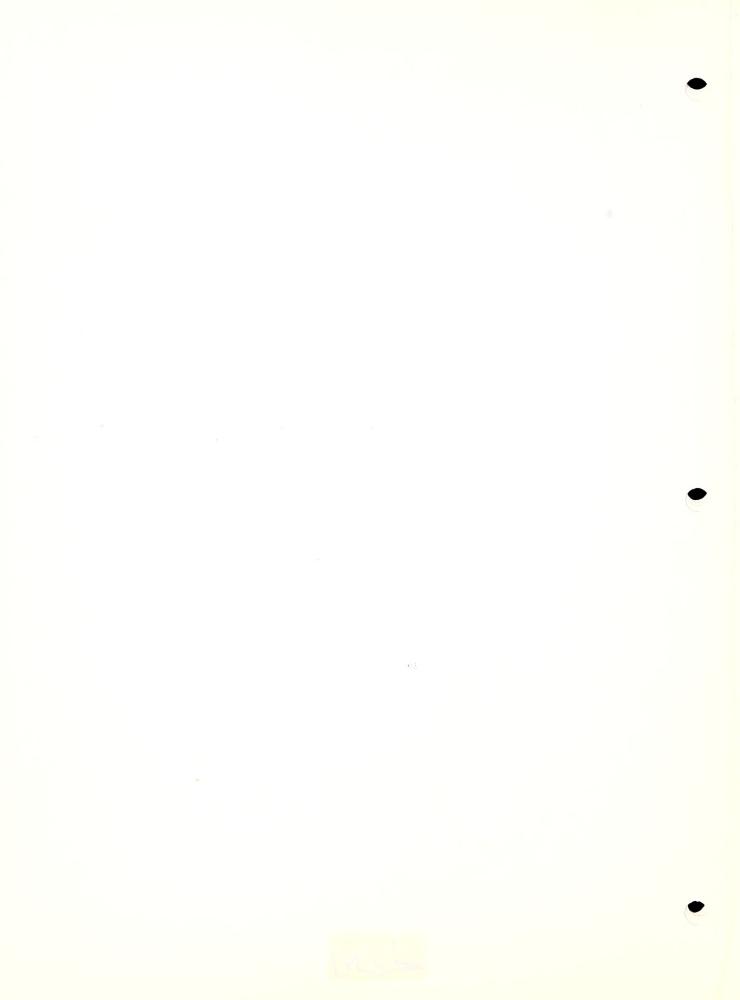
2)	2 00			b/판, (고) (교실 기)
	4 00	TIVÁN VIA GERTÍNADOV		UNITED STATES DEPARAMENT OF AVRICELITRE SOLL ORIGINATIVE EXPRESS. SOLL ORIGINATIVE EXPRESSES TEXATION TOLES, TEXAS TOWN NO. TOWN
	00 2		Twr. C-12 2.90 1.40 6-13 1-1/2 Not wailable Navelocies 31.45 7.45 Cot.ton 1 2.39	
	7, 1934		0.34 6.38 140 6-13 1-1/2 Not available Octon 1 Not available Not available	Sheet 1 of 1 Sheet Tyler, Tease June 10 & 17, 1931
	140 AM 2 00 JUNE 17, 1831		According to the control of the cont	
	04		1 1 6 6 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6	
	00		TER C-12   TER C-12   TER C-12   TER C-12   Then c c-12-17-31 ferin triangle trian	
	JUME 14, 1931			ER C-12
1	240PM 300			I.E.
	10	PO P		6 C. C.

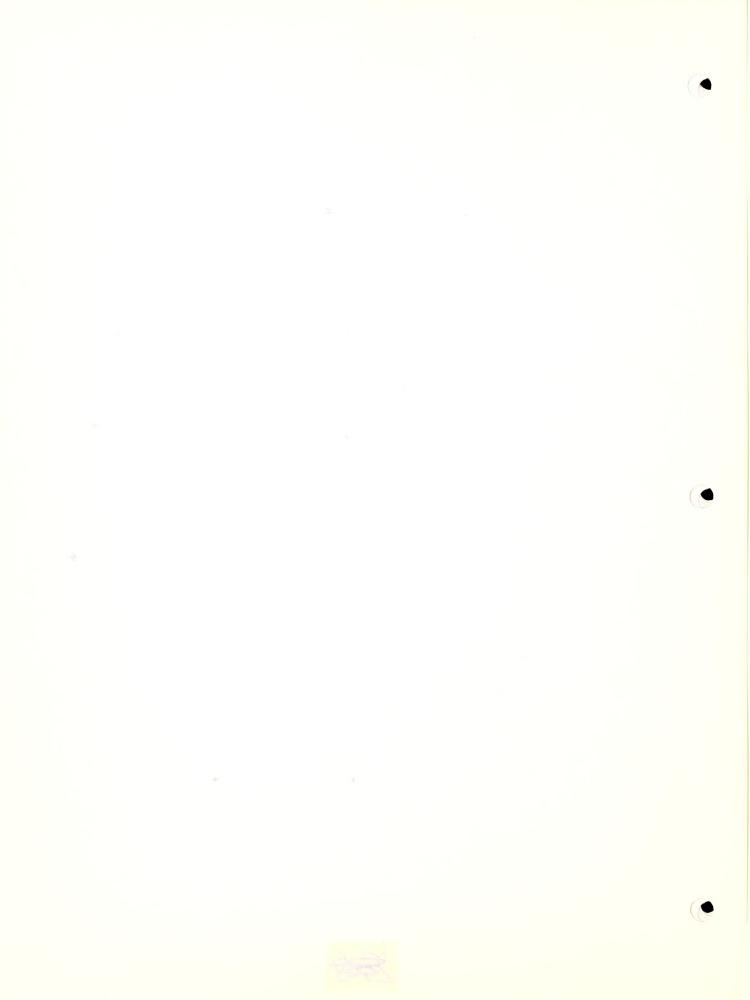


ACCUMULATED RAINFALL 210"  ACCUMULATED RAINFALL 210"	65.4-0,		STORM NO term of 16, 1933.  b. N.A.C. date 5-47 and t. Ogice date 5-40 and the bridge of the second
9700		20 1.72 1.0 1.4 2.0 2 1.72 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	
CECEMBER (G,1931	GAINTALL WITEWSHYZ	10.2 10 10 10 10 10 10 10 10 10 10 10 10 10	
	KAINE	11   12   13   14   15   15   15   15   15   15   15	
0.27	377 04		
2 2	10		



	Area (no. mar. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
PECEMBER 381931  OFALL MICWSITY  OFALL MICWSITY  OF A CARI  OF A C	





POP111 B. C. N -848

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19 32

Monry Jan-Peb-EarsApra

10 to 14th some up RHEETS outh; 4"-5"; fuir mtund etend repun 3"-4" s fair stand J"-4"; fuir stand 3"-4"; fuir stand or to cover salout 3-4" catageoversabout 3-4" outs;cover;about 3-4" oatricoveriabout 3-4" Rys & outs; cover; about 3-4" Rya & cata;cover;ubout 3-4" outzicoveriabout 3-4" onthicovor;about 3-4" out: scover; about 3-4" fuir turned bearng turned 9 ON OF WATERAIRE 4m-5" 1 Buted Q.F Corn plunted. Fallow loous OAtos OBTE Oute Corn 4-8" fuir stan Corn 1-2" H-9 & Ryo & Hye A fuir SHEET Bitty Love (total pay nore) RAEMPAIL MINUS RUN-OFF (Inches) 0.825 0.840 1.482 0.295 0.486 1.687 199.0 1,112 1-113 3.59 (11) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 6125FT 5135FN 2:3001 4:25AL 6 1 J. OAL 12,35At 2-20 9130Pa 0.03 12145FU 0.12 1130FM 2 140AM 12 145FW 12,2024 12 153AV 12,1812 9155AL 814313 61591 Time (10) MARINUM RATE 1-11, 12.74 1-50 200 0.33 2000 0.41 90.0 1.24 Cu. ft. sec. (18) 0.538 0.010 0.014 0.025 0.159 0.168 0.015 0,213 0.167 Amount (Inches) 3:434M 5:20AW 6:00AW 7:00AW 2:19EW 3:45EW 1:15FW 1:55FW 1,55FM B:50FM 6:15FM 1,45AN 2,30FM 2-21 2:15au TADOAN 41454M 3115AM 12:25FM 2:20FM 2:30FM 3 + 00 AM 11,22FW 2,024W 340001 1,055% 9:25AN10:35AN 9 t22PM Finded (hour) (13) 4.00FM 5.20FM 2 1 1 3 A M 11,25PM 8 . 30FM 7 140AM 11,58AM 12:15FM 2135AM 46-4612 140PM 62-5511 158PM 6139FM 2-50 Been (bour) (12) NRO NRO NRO 34-28 NRO NEO NKO NRO 53-31 42-43 63-50 51-40 14-40 (degrees F) 20 48 47 39 36 43 26 20 20 47 45 S 20 63 = 54-51 75-72 60-53 49-55 72-69 47-49 71-70 51-41 55 79 69 44 59 36 64 72 25 78 75 74 53 27 16 minutes Windanthe 09.0 0,34 0.54 0,38 2,06 0.68 0.32 0,36 0.12 0.18 0.16 0.10 0.56 0.28 0.10 0.76 0.64 0.64 (30) MARININ INTERNITY 2.12 0\*\*0 0.20 0.24 0.16 1.04 0.36 96.0 0.76 0.16 0.80 0.80 0.76 0.72 0770 0.52 0.38 (A) 6 minister (inches per hour) 96"0 1.32 1444 0900 0.36 1.20 0,60 0.36 1.20 0.36 2-16 1.0B 0.48 0-24 07.0 1.08 2.64 T.OH 0.36 RAINPALL Amount (inches) 5.70 0.50 1.90 1.28 0.19 2.02 0.44 0.28 0.85 0.35 0.40 0.85 04.0 0.82 0.26 1.28 80.0 0.02 49.0 0.02 1.11 9 0.31 Paratton (minutes) 1510 1132 1320 1880 1810 1230 1185 ŝ 733 695 147 192 994 435 550 545 6100AM, 975 215 163 OR PROJECTSOS Experiment Station, Tyler, Texas MIGSTI 44,3512 6 1 35 AM 4 100 PM, 2:3344 6133PM M35116 4 1 38 PM TA37AE A & 300M LOAGOAM 4:15AM 111300% 11,19F4; 6:27FW BILLOFM B116A2 B140AM 211057 Began (hour) 7-P-4 1-F-C 1-E-C 7-I-C 3-Y-C 1-Y-C 1-F-C 1-r-C Ongo No. 5-A-L 1-1-4 7-P-4 1-1-C J-1-1-C 1-F-C 1-F-C 1-F-C 7-1-1-E-C 1-I-C AUSTON WELLE. IL LANGE Arm Arms) 6 . 1H3 6.353 6.383 6.383 6.38.3 6.383 6.183 6.383 6.383 6.383 6.383 6.003 6.353 6.383 6.183 6. 183 6.383 6.383 6.383 6.383 6.383 6.343 WATERSHAD Yumber JA10 - 14-15 Jan. 3-4 F. b-14-1 Kar. 4-3 MAS 7 - Z Jun. 17 Jan. 25 Feb. 22 Mar. 18 Mar. 30 Apr. 7 Jun. 11 Jan. 22 Jan. 29 Feb. 11 fab. 13 Folls 16 Fab. 18 ULS - 27 DATA 1932 Mar- 4 Feb. 1 Tri ... Yob.



POTEN N + N.-345

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19 32

MONTH Apr. May. Jun.

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Woods (uaks) in lest.

Corn 3'-5';cow puse planted June

Cotton 4-5"; sorgnum about 6" aor hun 1" Corn lead by; cow poss about 3" Cotton c-o"; sorthwa about 14" - NIEETB Corn 3-5"; cow peum emorging Cotton 4-5"; sorghum about 6" c.oppad, 1/3, broadenet Woods (ouks) in leaf Corn 4-5°; cow peas about 3" Strip cropped; cotton 6-6"; sorbina about 13" Cotton up, worghum emerging Cata recently turned under Corn 32" Cotton cult'd May 14; ITED OF WAYABARED Noods (ouks) in loaf Moode (oaks) in loaf 0 loose, bare Corn about 12-14" Inllow, loose, bar 10) -01 Cora about 18" Fallow loose Corn 8-12" Strip co Corn 12" N SHEET 0.0921 (total per nere) 0.0069 1.2521 (18) Rainvatt, Minus Runcory (Indien) 3140474 5142A14 6105F24 1-807 33 I.126 1.254 Tlme (16) MATINON RATE ruta rate 0.15 Cu.ft me. No (30) No 9:00FM 7:30AM 0-114 9:10FM 0-123 0.004 0.016 Amount (friches) 9 Rinched (hour) POX POX (13) xoq pox Sil 3137FM 5115AM 6103FM NHO Silt Silt Becan (hour) NRO NRO NRO NRO NRO NRO NRO NRO NRO NEO NEO (12) NIO 65-63 09-09 35 9 09 99 51 65 65 65 72 72 72 THEFRANCIAS (dogram F) 5 67 67 67 75 75 75 81-83 81-70 62 77 80 73 62 2000 ವ ವ ಪ 88 88 88 88 88 88 # minutes 18 minutes 20 minutes (inches per hour) 0.76 0.18 0.14 0.44 0.32 0.48 0.84 1.30 0.06 1.28 (10) MAYING MITTERETT 0.28 0.95 0.24 0.08 2.12 0.88 0.56 0.64 1.52 1.92 9 1.56 2.04 1.32 0.72 2.64 2-64 0.24 0.48 0-12 2.88 Ê RAIDINALL Amount (inchan) 0.74 0.28 1.93 09.0 0.08 0.50 1.93 1,13 4110 0.11 1.27 6 Peration (minute) 1040 1228 1055 9 465 103 797 260 120 PROFFEE SGS Experiment Station, Tylor, Iskas 9 70 12 102AN 2.20Fh 744004 11.57AM 12121M 214554 2 4 4 5 AM 4 150EM 41401L 2 1 1 0 FM flegan (hour) (9) 2-F-Fb 1-F-C 3-F-A 2-F-Fb 1-F-C 3-F-A Oage No. 2-F-Fb 1-F-C 3-F-A 1-F-C 1-F-C 7-P-4 3-F-4 2-F-Fb 1-1-4 1-F-C 1-r-C 3-1-4-E € Acus nost rhin 7.936 6.383 CAL PUBLISH STAIRS A SUPPLY 6.383 6.383 0.383 6.383 6.383 7.956 7.936 6.383 7,936 6,383 1,726 6.383 1.726 A real Ê WATERBER Number 4 0 ê 40 40 4, 3 **₹** Ø 4 0 444 നേകഥ 61 4 A n 5 5 4 Apr. "? Apr. 13 \_ Samuel, 1 % Dana 1932 Juno Juna June Apr Kay May.



Form B t. N. 345

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

-, 19 32 Monra Juna Jala Aug.

M. C.	War	Warasonab	<u> </u>			RAINFALL	T			Tearresation (dogress F)	ATHON P. P. J.			Комчия					
Corn.	Number	A Total	Gage No.	Bagna (hour)	Duration (minutes)	Amount (inchos)	Maximum fareconf 6 infinites (livites per facet) (timites per facet)	Maximum invesary in thubuntes (linking per hour) (1	Vombutee	Meaturin Minimus	Minimum	Beging H	Ended (bour)	Amount (Inches)	Maximum Cu ft ave	Rave Ra	RAINTALL MINUS RUN-UPF (Hichose	RET Lover (tons jue acre)	CONDITION OF WATSHAMED
77.	2	(5)	ą.	(0)	(8)	(2)	(H)	(a)	(111)	(1)	_	(12)	(13)	(14)	(13)	(01)	(83)	(18)	(10)
June 27	ଲ ଏ ଏ	7.936 6.383 1.726	Q 54 - 1	7.1524	o <sub>o</sub>	0.11	09.0	0.24	0.14	ಕೆಕಕ	74	NRO NRO NRO		(c <sub>rit</sub>	Į.	()			Woods (vaks) in leaf Corn 4"-1"; cow pens shout 4" Cotten 6-""; sorghum about 16"
July 6	ଜନ୍ମ	7.930 6.383 1.126	24 ~ 12	B.45.48	1.18	1.08 1.11 0.99	88	2.68	06-1	ମାନ ମଧ୍ୟ ମଧ୍ୟ କଥା ହେଉ	74	NRO OLICHAILESOFM Silt box		0.100	2.32 1C	10,26FW	1.010	0.672	Woods (ours) in leaf Corn J'-c'; cow peus about 5" Jottor R-j(" cult'd; norjhum about 25"
July 11	កាកាល	7.936 6.383 1.726	લનજ	4.15F#	15	0.26 0.29	1.44	1.0%	U .52	01 02 04 02 03 03 03 03 03	74 74 74	NED NRD NRD	l kur				) 		Woods (ceks) in land Corn 6"; com pass about 6" Cotton 9-12"; sorphum about 30"
20 200	ଅବାଧ	7.936	ଜାନସ			0.0 40.0 40.0				ල ල ල න හා න	76 76 76	NHO NRO NRO			3				Woode (cr.s) in leaf Corn 6"-7", cew pers about 8" Cotton lu-14"; sorghum about 42
July 22	~ • • • •	7.4436	мым	24386	37	1.27	89.7	3,12	2014	4 4 4	002	NRO 2.655FW 3. No racord	K402	0.190	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.53PW 3.05PW	0.940	1.280	Woods (comp) in load Corn means mature scoapous 6-12 Cotton Le-14" porthum about 42"
July 23	শ ৰ গ	7.936 0.383 1.726	~ - a	1043227	115	Us.34 Us.37 Os45	1.68	1.12	0.62	E E E	22.27	NED 1.03.Pull.35.Pu 311. 00.x		0.043	0.93 11 No rate	11.07PM	0.327	0.436	Woods (usis) is leaf Corn 6-7'; coayess about 10" Cotton 11-14";sorghum about 5'
Au6. 8	ଡା∜ର	7.936	lan	SALSAM	165	0.37 0.38 U.41	1.20	0.80	0.64	61 05 01 작 전 작	72.	NRO NRO NRO							Toode (once) in leaf Corn t-7'; cow puse about 16" Cotton 14-18";sorghum about 6"
केम ४० 14	wan	7.836 6.363 1.726	815	Z a O S A V	260	0.13	0.72	0.24	0.14	000	75	NRO NRO NRO		1 1			1		Woods (onks) in leaf Corn 6-7"; cow pess ubout 10" Cotton 20"; corpium about 6"
Augel7elt	m 4 v	7.936 6.383 1.726	аче	11455FW	460	6 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.36	0.20	0.14	16-56 16-56 16-56	74-73	NRO •							Woods (ours) in leaf Corn ripe; yous prosm Strip cruphed, cottenisorghum
	(	8 0 0	PCOP HOXP FRAD	-	1			A sie the A	2	4	П	1 °	100000000000000000000000000000000000000	1000			- 40		ATTEN ATTENDED



Purtin 15. ( 11 - 84.6)

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19 32

MONTH AUG. Ropt. Det.

Corn ru dy to hurrest, compens 24° Cotton 23-26" seorghum 6° Woods (ours) in lust. Outs and rys planted Sept. 23-26 Strip cruppedjcottom 24-30"; Sorghum 6" Corn rily ;peas-green;poor-stand Rye and outs Cotton 21-30";sorgamm maturing. Corn mysteow peas about 24" Strip cropped;cotton 20-24" RITERIA Moods (ogks)leaves turning Cotton 20-25" ; sorghum 6. Cotton 23-26"; sorghum 6. Woods (ouks) in leaf Corn staiks;cow peus 24" 24-30" ; Borghum. 6. Cotton 24-30" jaorghum 6" TON OF WATRABLED Сога гіразсокрамя 24" Woods (ouks) in leaf. Fallow, loose Cotton 24-30 ;sorghum Toods (sake) in leaf Ruods (ouks) 12 leaf Tood a (ouks) in lost Moods (ouks) in lost 0 O.T. Bor Shun SHEET 0.174 Str. Loss fore per sors: 0.006 (18) BALPPALL MUNCO RUN-OFF (Higher) 0.773 2,305 (17) (16) MAXIMUM RATE Thme No rate No rate. Ou. ft. see, (13) 0.037 0.035 Amount (inches) Silt box pox Endad (bour) (213) SAL Bogna (hour) (12) NRO NEO NEO NRO NED NED NEON NRO NRO NRO NRO NRO NEO NEO NHO 95-91 74-73 94-76 75-71 61-64 61-54 95-91,74-73 75-71 72 72 72 72 202 68 68 999 TREFILLTORS (degree P.) 66 64 52 53 Mudm 94-76 71-82 71-82 600 80 80 83 83 72 72 72 72 17 444 No enforcement (forchess per hour) 0.16 99.0 0.64 0.08 0.14 0.20 0.32 0.08 D.O. (10) MACHINE INTERNETT "A technolos (Inches por bour) 0.12 0.20 0.08 1,52 0.36 0.12 0.20 0.29 1.32 ê faches per bour) ( 0.24 0.24 2-40 0.12 0.48 0.12 0.24 0.36 2.64 9 RAIMPALL Amount (Inches) 0.76 0.18 2 - 49 2 - 34 2 - 28 0.08 0.20 0.12 0.14 0.14 0.12 0.52 0.67 0.61 0.66 (2) 2100 2155 Puration (minutes) 255 ROB 333 20 99 09 82 SCS Experiment Sention, Tyler, Texas 7.40PJ 341514 5x37F4 1000H 7148FM 430AV 1,5542 TADDAY 12 & 32 AM Begun (bout) (8) 2-r-rb 1-r-c 3-r-A Over Na. or Him NIM and NAM NHE or or or 21 0 7.936 7.936 6.183 1.726 7.936 6.383 7-936 6-383 1-726 7,936 7.936 6.383 1.726 7.516 6.183 1.726 7.956 6.183 1.726 7.936 Arm (ect m) m 4 m es 4 4 m + m 4 4 5 ल क व लक्त m or a 940 m of in Aug. 18 Aug. 25 PROJECT 17-1932 Dara Oct. 2 Oct. 4 30mt. Sept. Sapta Saptor Sept.



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

-, 19\_32\_ Monrie Oct. Hoy. Dec.

_	WATERDINED				RAINPALL	7			Tampunature (degrees F.)			RUN-0FF					
						×	MARTHUR INTURES			_	a de la companya de l	American	MAXINUM RATE	T	RAINTALL MINUS	Rite Lore (tons (ser acts)	COMBITION OF WATHABLED
Number	Area (notes)	Ougs No.	Page R (hotar)	Duration (minutes)	A goodna)	6 minutes (Inches per hour) (Inches per bour)	18 minutes (Inclus per bour)	FO minutes (inches [ew boar)	Maximum Minimum	(pom)	(pont)	(inches)	Cu ft me.	Time			
3	(8)	(4)	(9)	(8)	(3)	(8)	(a)	(10)	(11)	(12)	(13)	(14)	(15)	(10)	(1.7)	(19)	(10)
m 4 m	7.936 6.383 1.726	2-F-Fb	Baltan	454	0.94	1.44	1.00	0.52	79 489 79 489	NRO NRO NBO							Moods (outs) leaves brown KVe and outs, bud stand Strip gropped, cotton mature.
0ct. 3U. 3) 4	7.936	od H to	11.07.1%	541	0.21 0.21 0.29	0.72	0.36	0.20	76-72 53-55 76-72 53-55 76-72 53-55	S NRO							Mocdu (orks) shodding  Myo and outs; bud stand  Cotton increased; Oct .6-how.3  Sorthum stubble
n <b>⊕</b> ∩	7.936	7-P-4	7.43Pk	. 83	0.15 0.16 0.18	1-72	09-0	0.30	7.9 7.9 7.9 7.9 7.9 7.9 7.9	NRO NRO NRO							Mooce (oren) few leaves  Rye and o te; bad stand  Cotton stalks; sorghun stabble
040	7.936 6.383 1.726	мне	BASTAN	197	0.71	2.52	1.08	0.60	65 49 65 49 65 49	NRO NRO NRO							Woods (ouks) bure Rye and catu, bud stand Fallow
m <b>4</b> 4	7.936 6.383	444	7.06/7	136	0.10	0.12	0.08	0.08	50 38 50 38 50 38	NEO NEO NEO							Woods (ouks) bare Bye and outs; bed stand Fallow
Dec. 5-10	7-936	લનન	10,000	1430	0 40 0 34 0 34	0,84	2 % C	0.24	47-35 31-31 47-35 31-31 47-35 31-31	1 NRO							Woods (outs) bars Ryo and outs; bad stand Outs and ryo up
u 4 v	7.936	NHM	1 ADDAN	594	0.16	0.24	0.12	oro	42 42 42 42 42 42 42 42 42 42 42 42 42 4	NBO NBO NBO							Woods (caks) bure Rye and outs; bad stand Outs and nye up
3 Dec. 13=12 4	7.936	216	C10014	2400	0.41	0.36	0.24	0.22	29-35 25-30 29-35 25-30 29-35 25-30	O NAO O NAO							Woods (outc) bure No and outs; bad grand Outs and myo small
Dac. 22-1.1 4	7.936 6.383 1.726	ଷ୍ୟଳ	7200AM	188	1.90	3.00	2,24	1.84	63-71 49-63 63-71 49-63 63-71 49-63	3 8105ak 3 7145ak 3 7145ak	9105AK	0.004	0.09 4.50 1.30	8127AN 8124AN 8125AN	1.896 1.515 1.516		Wooda (puks) bure Rye and onto, bad stend Rye and outs hair



Porm 6, C. 6, -848

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19\_32 RILEETB

MONTH Deacmber

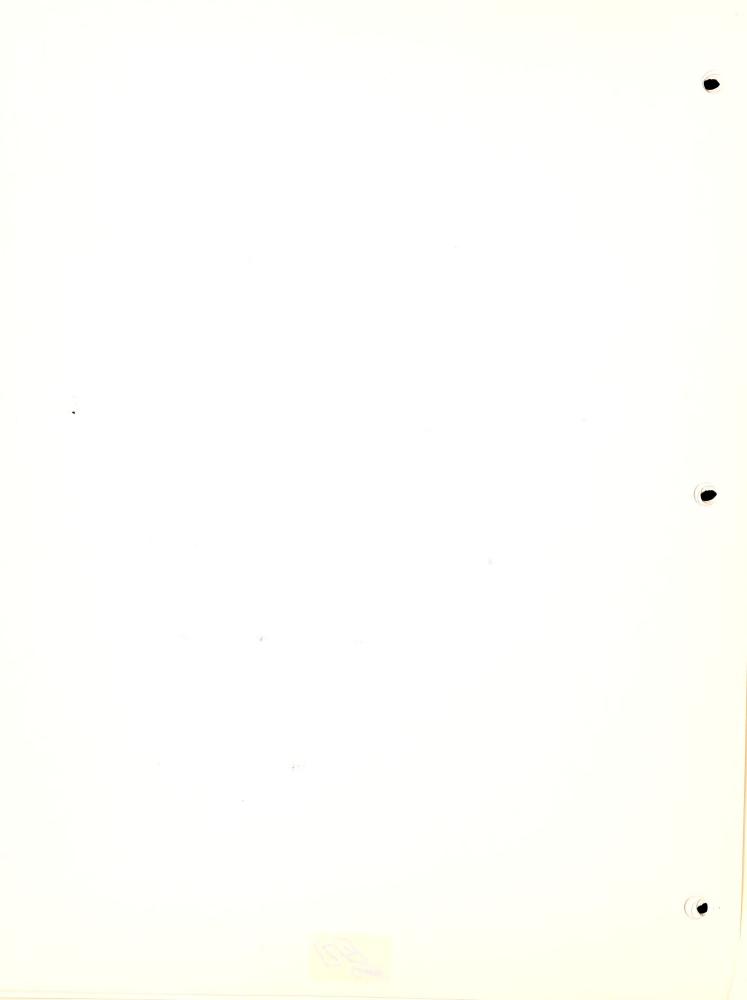
9 0.1 9 SHEET PROJECT SCS Experiment Station, Tyler, Texas DOLL 9 JULY PLINE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

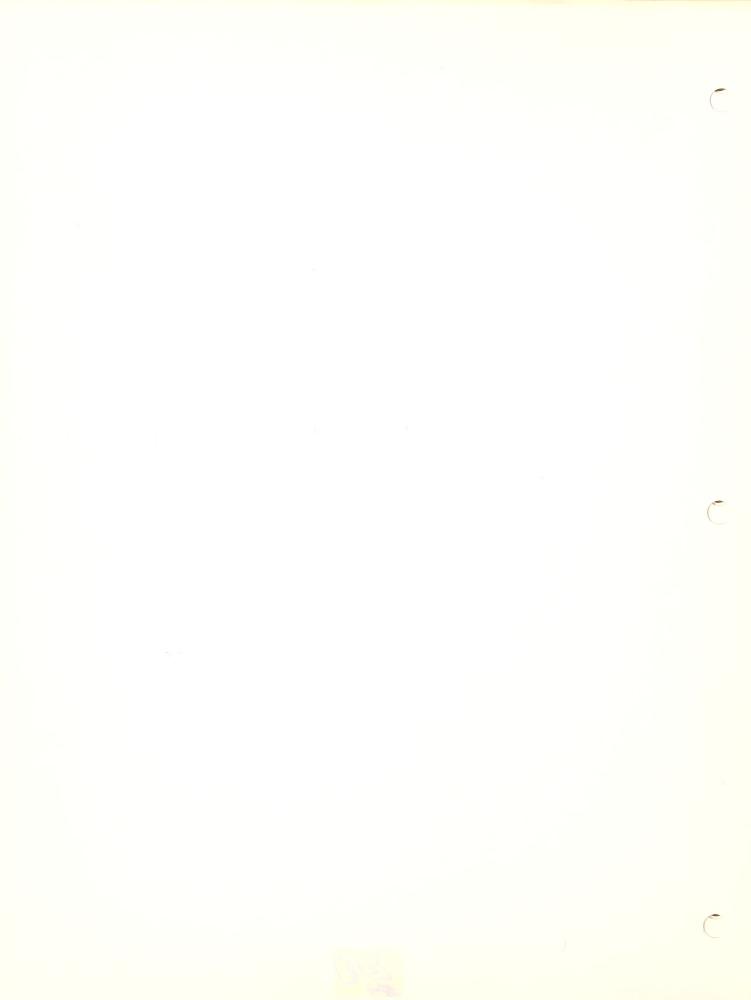
grand stand oats 1-2"; bad cutn; bed Roods (ouks) bare Woods (onke) bure outes 2" (01) Rye and c Rys sud pun Rve 3.582 3,435 0.045 fore form (tone per nore) 3.641 (3.8) RAINTALL MINUS RUB-OVE (Inches) 1.039 1.467 1,204 4.057 (17) 6151PM 6147FM 6147AM 6:4744 6:4744 Dec.30 3:4544 Bec.30 (18) Time MARINUM RATE On R. swo. 15.58 (8.8) 2.48 5.44 0.040 Dac, 29 Jan. V 33 . 9:59E4 9:00A4 1.093 3:28F% 8:0004f 3.133 Dac.29.Dec.31 3:15F% 1.47A% 3.356 Виновт Amount (factors) (3.6) Dec.23 Dac.23 613474 814574 0 6128190215544 0 Dac .29 Dac .31 Roded (hour) (3.3) Poster) (12) 71-69 63-47 37-42 37-42 37~42 (degrees F.) (11) 53-54 53-54 53-54 Wminutes aches per hear) 2,60 1.24 (36) finches per four) (Inches per hear) (Inc MATORVE INTRODUCT 1, 1932 setubilehed April 1932 3.80 1.40 â satubilshed July 4.20 2.24 Ê BAINFALL 1.92 5.15 4,60 \$ ... 56 6 agad Jjo Sun-off gage Duration (gatautes) 1165 9 544 2-F-Fb 1-F-C 12:32[W : 1115244 Para Regard (botar) 6 1 (Jage No. 9-8-8 3-8-43 € 7.936 A 18 (0.18) 7.936 6.381 1.726 1.728 6.383 Ē WATTLASHID Number ĉ 40 vO 1932  $D_{\Delta 1\,0}$ of the last Dec 423-Dec -29.

			a. 2.
	3		27.4
	Min.		Per
	og	Address of the second s	CF AGRICULTURE. AS RAYLE AS RAYLOR AS RAYLON CF 4, 1922 AS REAL AS
	0.6.64 97 97 97 97 97 93 93 93 93 93 93 93 93 94 95 95 95 95 95 95 95 95 95 95		GRICULI JCE STATLON 1933
	0.6-9 0.993 0.67 Dec. 30. 13 En x. 54 Borte 59.53% 7.50% 7.50% 1/3 No. 12,	•	SRICE ICE STATI
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		THYICE IN STATE IN ST
The second secon	min.)		TTO TTO TEA.
	No.		N E Ked
	Area (ggre)  date begin  dark then  darking (hours)  darking (hours)  fraparitin (hours)  privati of area  solop, average (jurs  eartime  eartime  cert type  cert type  cert type  cert type  dart had to the then  dart had to the then  Area artime  for the then  eartime  ea		UNITED STATES DEPARENT SOIL CONSTRUCTION H. H. BILL N. B.
4 1 1	Area (gorea)  Ante bern  Ante bern  Ante bern  Anterior (hour  Temperature (reas  Boll (major type)  Broth of area  Broth of area  Broth of area  Broth of area  Broth (ft.)  Anterior (ft.)  Anterior (ft.)		SOIL CONSIDER SOIL CONSIDER SOIL CONSIDER THE BEST SOIL CONSIDER SOIL CO
4 - 4	Area (gorea) Preseding Fail Preseding Fail Authorities (Gorea) Proportius (Gorea) Proport		H. T. H. C.
	Area (coredute be date be dara be duration from from from from from from from from		UNITED STATE SOIL H SOIL CON SOIL CON SOIL CON STATE OF SOIL CON MINISTER MINISTER OF SOIL CON MINISTER OF SOIL CO
	Area (e fate dura feupera feure		SCORPUTED ST. SULLE 1 STORM NC
	74 48 20 6 , 28 4	11	NIT OF O
			S S
			lot t
	273 -73 -130 -130 -03 -03		
24	173 1340 1340 0 03	71. 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	11 00 00 00 00 00 00 00 00 00 00 00 00 0	20 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	3-43 - 40 3-43 - 60 3-43 - 60 3-52 - 60 3-52 - 60 3-55 - 60	3, 64 (1) 1, 10	
	2 2 2 2 2 2 2 2 2		
	2000 23 29 29 29	0 00 00 00 1- 00 00 00 00 00 00 00 00 00 00 00 00 00	
The state of the s			
	2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	31.4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	1 a a a a a a a	0 4 4 4 0 0 0 0 0 0	
		9	
	1,20	2 2 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	10 17 9 9 9 9 9 9		
Charles and the charles are th	1.93 2.09 2.09 2.09 2.30	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		1 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	13 2		
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	21460 11153 1150 1150 1150	
	10:30 Az 12:25 Az 12:	11:50 11:50 11:50 11:50	
		All Address (Miller of Miller of Mil	
	34, p57 Urs. 20.00.00.00.00.00.00.00.00.00.00.00.00.0		
		S 4 8 8 5 7 8 5 6 6 7 7 <del> </del>	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46. 03. 89. 44. 11.11. 12.11. 1	
	2 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
A second			
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74.32 1.45	
Methods the production of the	41.25 41.25 41.25 61.30 61.30 61.30 61.30 71.25	11.35 11.35	
	8 113 1 1 1		
	1938 1 1938 1 1 1938 1 1 1 1938 1 1 1 1938 1 1 1 1938 1 1 1 1938 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
The second secon	1 1 1 1 1 1 1	E1. 10. 17. 0 P. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
	19.3	21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
7	93 72		
	1 2 2 2		
	Then, in Day, in Day, in Day, in Day, in Day, in the last in the l	01 01 01 01 01 01 01 01 01 01 01 01 01 0	
	ATTOM TYLER, TO ATTO		
	MAIN OF 1912 ALTERATOR PRODUCED TO THE ACT T	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	AN THE PROPERTY OF THE PROPERT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	501L #00024074710M \$192443677 \$742109  TYLEA, FELSE  RAIN 0. 19-1, 19-2  TYLEA, 19-2  RAIN 0. 10-1, 19-2  TYLEA, 10-1, 1	11.00 11.00	
	13 15 15 15 15 15 15 15 15 15 15 15 15 15	11:00 11:00	
the state of the s			
	The second secon		
and the second		figuria mating of o	





2.004.W.		, the state of the			-	Control and the second	CULTURE  19.22  41.4544688882354
		2)				024	WYNTHY CONTROL OF THE STREET O
JOO 100 JANUARX 5,1932 570	1		**************************************		\$= = = = = = = = = = = = = = = = = = =	C H C H.	ANTED STATES  STORY NO.  STORM NO.  STORM NO.
WFALL	7					processing of control	Company
ACCUMULATED PA	(P.4-5AGE)					t-5:	
ACCUM						9	2
00//							
						The second secon	
4,1332							
2					2707	and the second s	
			F 1(N, 41.2, 1M:ENS)) y	7. 5. 4 1. 2. 4/1-9, 1. 6. 26 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	1, 5, 1		
00.6		Transference of the contract o	general community and the	And the statement of th	and the same of th		
800RM		gradiente dississer une respectivo de la companya del companya del companya de la		$\mathcal{F}_{p_{p_{1}}}^{(p)}$ for soft of the College constants	The section of the se	The second secon	
8			- Parties			\$	



40000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A frue (ret ten)  Freench (ret t	Cote last twe form part of the shall shall be branken	DNITED STATES DEFA TO COLLIUME SOLL COMSTRAINT STATES STORM NO. 24 150 1924 Corputation 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1000 11. 45.09 11.19.23.23 11. 11. 11. 11. 11. 11. 11. 11. 11. 11.					
3	1)	1,55 7, 40 00 0 4,05 10 60 0 4,15 10 10 06 4,10 1 10 10	.03 .04 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	1.50 1.124 1.13 1.10 1.124 1.24 1.24 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10 1.10	
0.0188		DOLL GUNDEPPATON KATAITIANT STAFTON  1   a.g. intal  Rain of Pana It, 1904  Tain Ongo, Pen	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61. 11 6. 11 11 11 11 11 11 11 11 11 11 11 11 11	17. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7

6000 11 4000 11 1232 1000000000000000000000000000000000000	SUL COULEWATTON ALENGEM STATON THAN 12, 1932  THE OF LAW 12, 1932  THE O	SOIL CON.ERVATION EXPRISS. PALAC STATION STORM NO
25.000		



7	750 W 721 11"		
	600 4CCUMUS ATED 4CCUMUS ATED	Area (urron and the beam (u.)  Area (urron and the beam (u.)  And	
-9.	EEBRUARY 15, 1932	13	
	3.00 Ramfall INTERISITY	W. E. W. S. I. W. S. L. L. S. L. S. L. S.	
9	2 00A (4)		

E VOUSS EST LESS OF THE STORY



			Aron (mitus)  6.239  Proording Pair (in )	Toperstand (nits a min.)   34	Monaths (1977) — Nov. 10, 101  Roan-10- 10- 111 ample-		UNITED STATES DEPOSTED IN THE PARTICULIURE SOUL CONSTRUCTION SERVICE H H DELANT IL CHIEF. SOUL CONSTRUCTION SERVICE THESE STATEON	STORM NO. This was 18, 1932 Plot by Land C. Gotto Bay 1534 (1974) by Local Land Computation by Residence of the Lange 1860 Computation by Residence of the Lange 18. Here will by Englands of the Lange 1.200 Brows L. C. Strong
# 707 *KC50						5 5		
7.200 1.200 FELFORETVIOLEST	1-dir Consumer in the state of	Main of Feb. 19, 1932 Rein Grees Field C  The Third Community State C  12, 0		14 14 15 10 10 15	15 .08 .08 .16 .17 .10 .10 .10 .10 .10 .10 .10 .10 .10 .10			
						5, 2 7		
34.1. 2. 11. 2.	7							
שתטא ששט פש ששט אל או או אל					J 1334 0/8/10	NI JJC. OY		

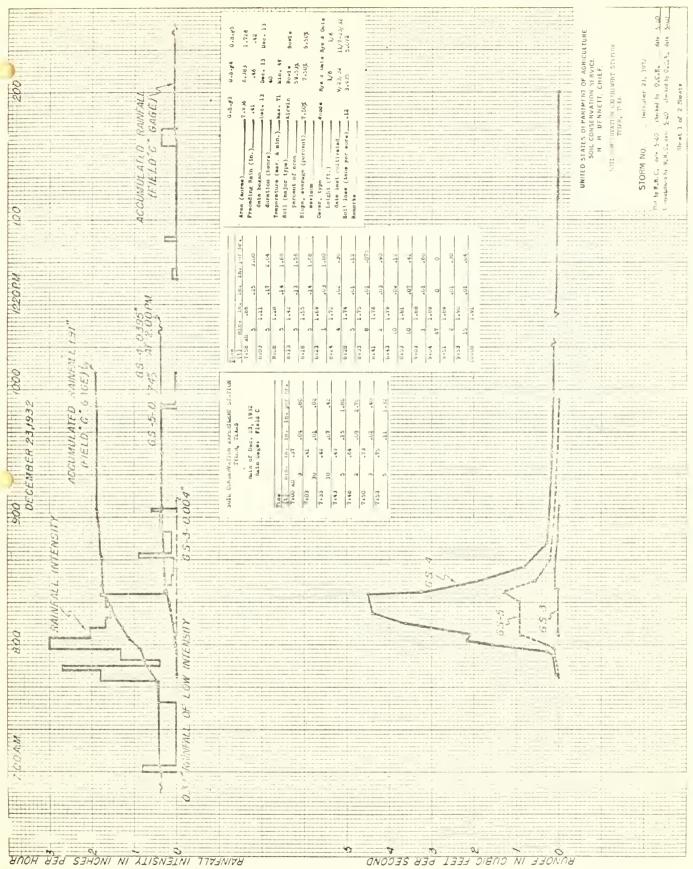
\$37A

, F	000:571 AJSML		STORM NO. Televary 10, 1942  Plot by Lat. Advance 10 to 10 t
	FEBRUARY 18, 1932 7.00 11/2021/1		
	3 1 00 18 3 00		

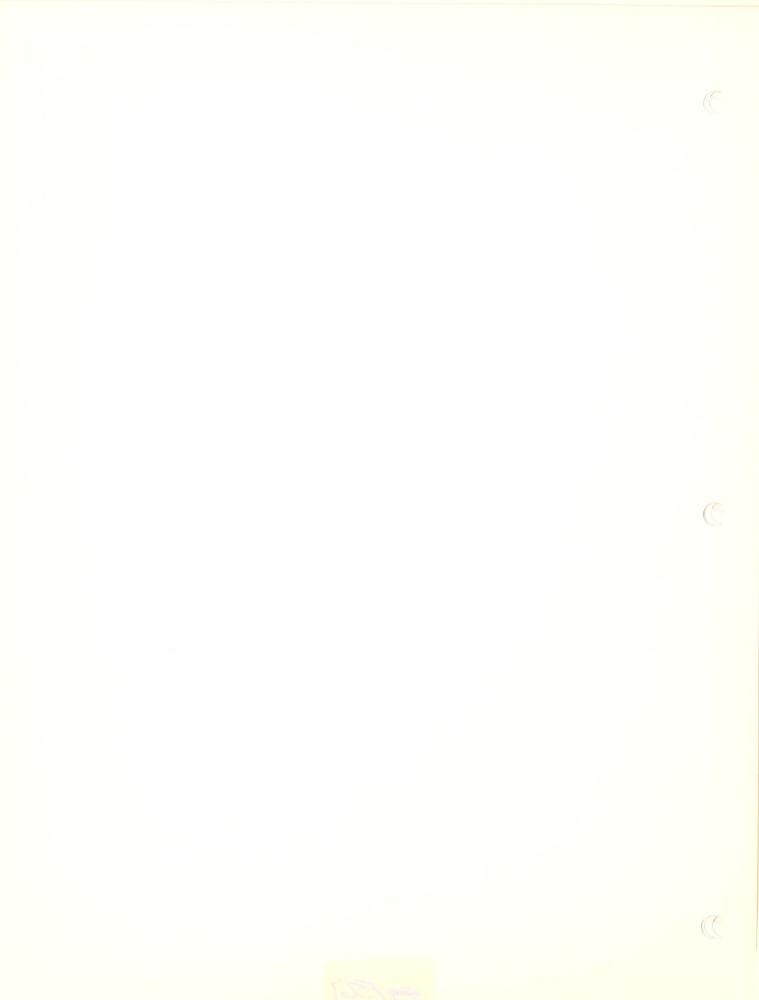
(b) 10 10 10 10 10 pr 10. 61.10 Sell Cathervaller some mid HT stafion Films, fakab 6110 2 .03 , us Hain of March 4, 1932 Hain begot Field C .45 9.1° 1.08 .60 -24 7:55 20 7:35 15 .53 8150 81.35 40 .69 7,40 1H .40 15 .74 18. .72 -74 69. 48. \$ 5.4-00AT S.R.EP.A. -62 B\$0. - II-SUL CLASHVATION EXPERIMENT STATION
THERE ISAAS 14155 12:50 12:35 Pain of Moreh 5, 1932 Hain Gager Field C 1.32 .05 1 ...4 1.21 87.1 .24 .072 EH). STORM NO.\_\_\_\_ Blope, averege (per anti-UNITED STATES DEPAREM INT OF AGRICULTURE SOIL CONSERVATION SERVICE B. H. BLUNCTT, CHIEF, Soil (mitor type) Area (nires)
Preceding Rain (in.)
date hogus duration (hours) SALL CONSERVATION NAVIGABLE STAFFOR March 4, 1932 ho at t surper There is Min. 31 10h 2, 1932

Steep 1 to 1 Stock

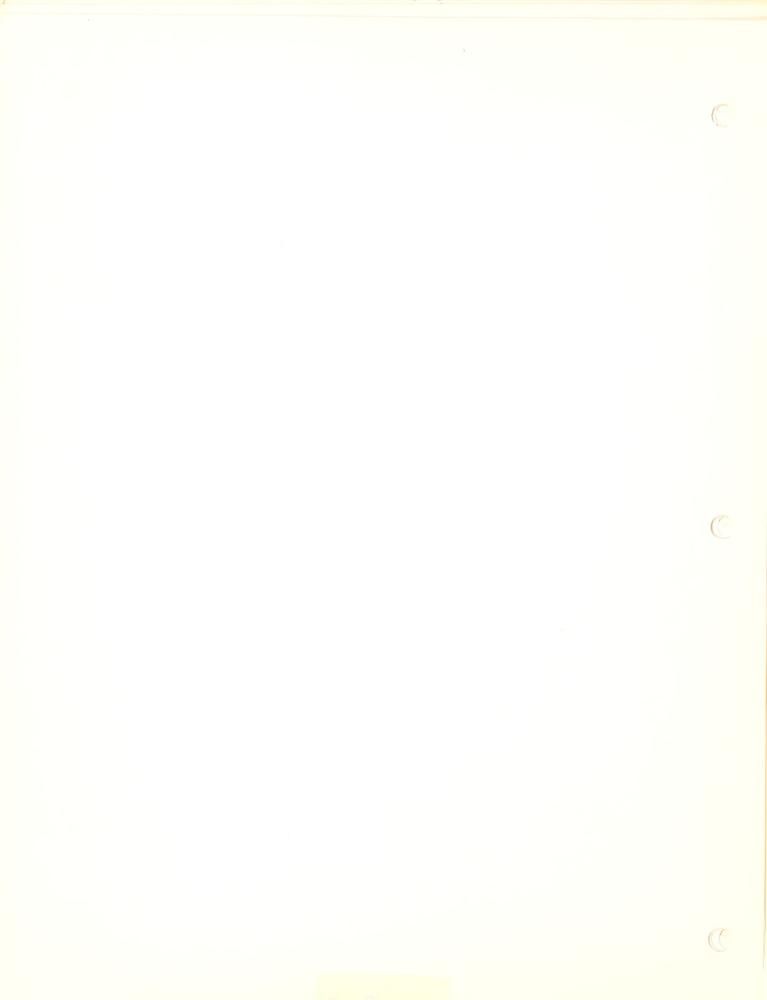
÷

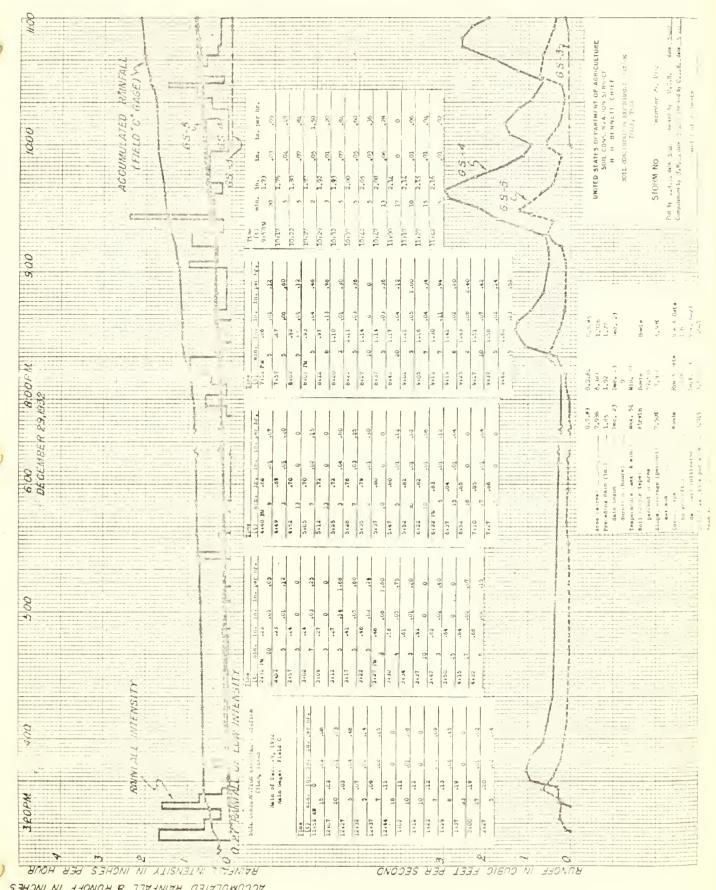


ACCUMULATED RAINFALL & RUNOFF IN INCHES

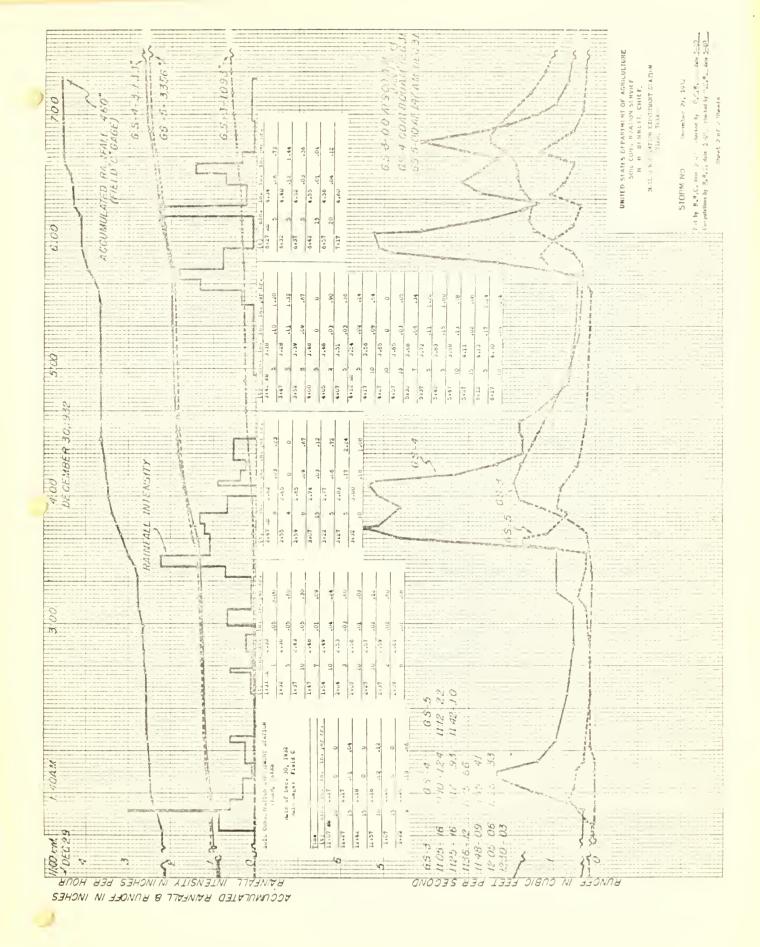


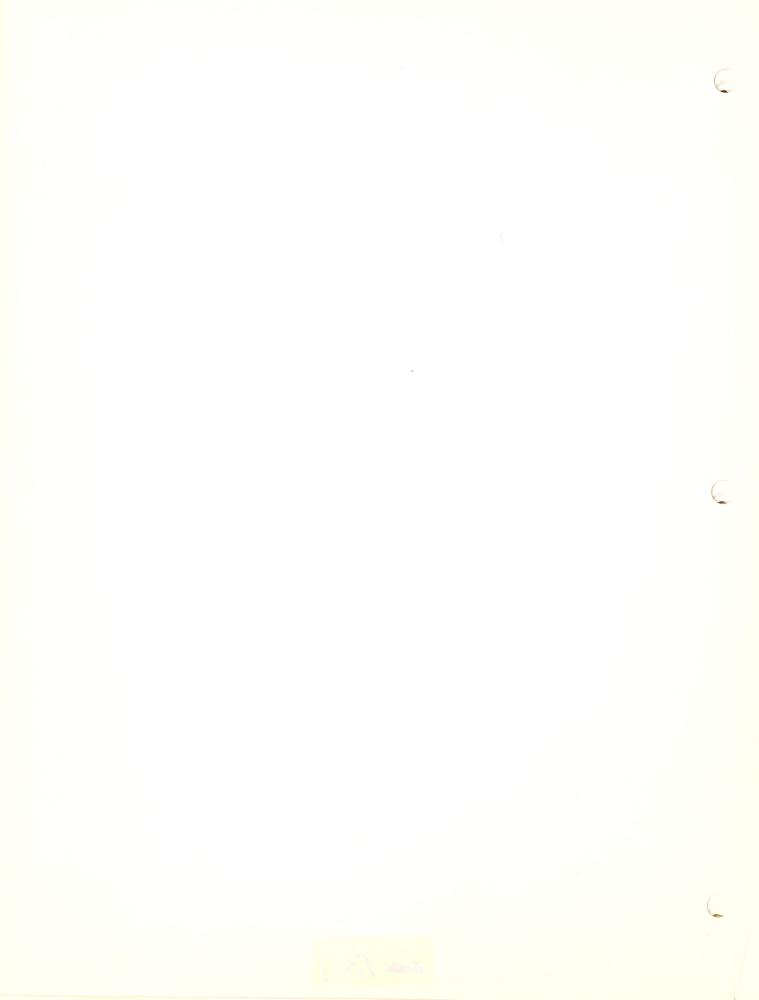
					N DEC BY	1250 1250
)	4-69	8	93.6 93.7 90. 94. 94.	112 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25.4 M DA	RICULINE STATION STATION - 29, 1934 - 48, 1934
	15		1.61 (9)	1.62 01 1.63 0 1.63 0 1.73 0 1.73 0 1.75 0 1		MIN OF AREU ALION FEVIC. IN FEVIL. I
	000		A - A O O O	7127 3 7134 30 8102 15 8127 15 8127 15 8120 15 8120 10	300	PAN SERVICE SE
		z			30 00 00 00 00 00 00 00 00 00 00 00 00 0	UNITED STATE OF SOIL CON SOIL CON SOIL CONS WE SOIL CONS WE STAND NO SOIL CONS WE SEE SOIL CONS WE SEE SOIL WAS A SECURITY OF
		2	0 0	0 0 13 41 41 41 41 41 41 41 41 41 41 41 41 41	36.20	STOI STOIR
	0	OMMATICA		0 00. 00. 00. 00. 00. 00. 00. 00. 00. 0	3 0) (0 41 117 (0 2 3) (1 2 4 2 3)	
	<b>2</b>	JUIL CUN JA	10.00 mm mm m m m m m m m m m m m m m m m	4132 4156 4156 4156 4156 3144 3165 3146 3165 3165 3165 3165 3165 3165 3165 316	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	4					
		9 F			<u>V</u>	
	9 (2006)	3.40060			9	
).	23/33/	\$ \$				
4	WBER A				9	
	9008	125				
		5				
	35882				1	
	00 74 00 74		20	<b>N</b>		
	o amin	A		W GENERAL WAR	h	
		-				
	осы		\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			
	9 Wac		10 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			And the state of t
			- To Vr.			
)	AUDH RAS ESBONINI YTIENSTI		<u>L</u>	บบงจรร สร 1333	day or make another	
	D BAINEALL & RUNOFF IN INCHE	TELUNUS.	57			













Porms 8, C, 8.-848

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

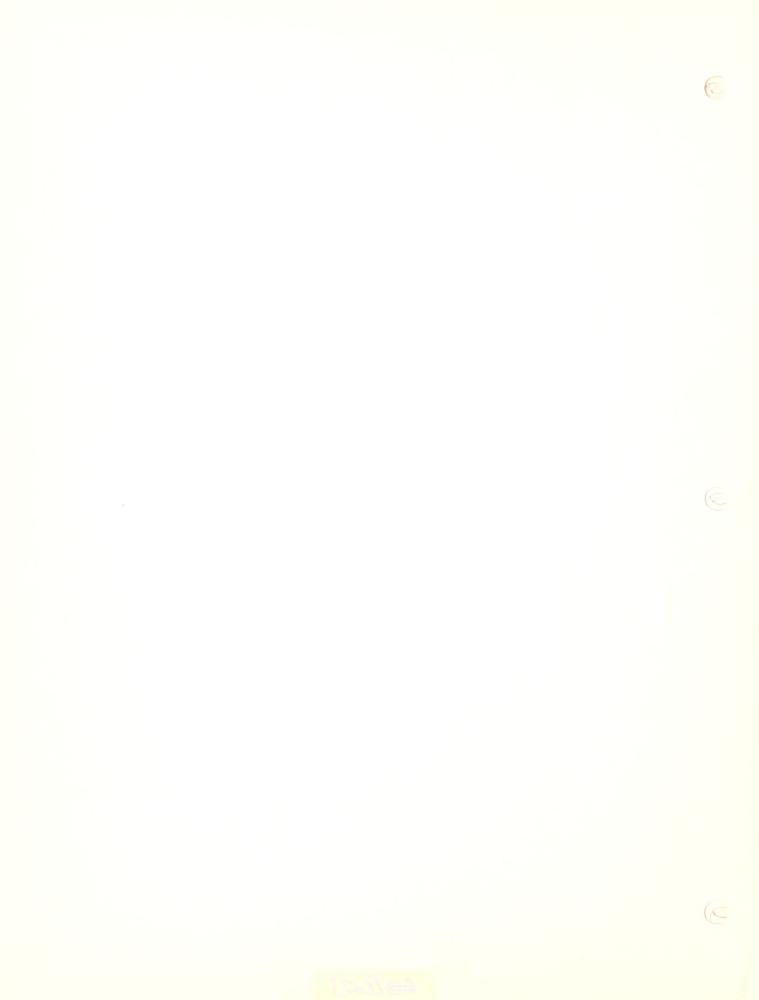
DIVISION OF RESEARCH

RECORD GF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19 33

MONTH Jen. & Peb.

SHEETS 3\* Woode, bure Oats 3", poor stund; rys 3" Rys 3"; oats 3" E CI Oats 3"; poor stand, rys 3" Rys 2"; outs 2"; bad stand Woods, bure Oats 3"; poor stand; rye Rye 3"; oats 3" Outs 1", poor stand, rye Outs, poor stand; rys Moode, bare Outs, poor stune, rye Outs; poor starms rye ЗОИВЕТОИ ОГ WATCHED 8 Woode (ouka) bure No 5", oats 5" 6 28 40 oute Woods, bure Woods, bure Noods, bure Woods, burs do. outs Aye, oats Le. oute Ryes Outs Bye 2"; SHEET Stry Loss (fors per sore) 0.049 00000 1.010 0.453 0.143 901.0 0.058 0.467 996.0 HI. RAINTALL MINUS RUN-OFF (Inches) 0.840 0.309 0.650 U.633 482.40 2.862 1.698 0.428 199.0 17 3,3344 3,58FN 2,10FN 3,53FN 1-7-33 11 074K 1-7-33 10 51 4K 3140AV 4115AN 0.06 4:51AM 3126AN Time (91) MAXIN'S RATE rute 1.05 2.01 1.79 0.56 99.0 Cu ft. 860 ON (18) 4.115 0.742 1,982 0.540 0.219 La167 C.061 0.093 860.0 RUNGER Amount (limber) 9.5 NRO 2155AM 6100AM 10157AM 21551M 2136AM 7126AM 10152AM 11311M 3:26rk 1:01rd 2,20,3% GA46AM 744112 1-7-33 1-8-33 \$120AB 4 1 36al 74584. 341044 641544 FOG Endel (hour) (13 SARt 2 108rW 5 1-7-33 Ma20 10 M.15715 3 1 2 6 all 31.15nh MRO Dh.rl NEO NEO SEN SE NEO Sagan bour) (22) 46-46 46-14 46-46h 46-14 46-14 47-40 31-75 47-40 62 5 kg Tamranatuna (degress F) 2223 62 4 4 4 212 54-60 54-60 54-60 11-03 60-71 61-47 61-47 61-47 72 72 8 8 8 63 9999 899 5 minutes 15 minutes 30 minutes forches per bour (linches per bour 0.50 00°0 0.22 80.0 05.0 04.0 0,22 MAKINUM INTRASTIT 0.64 0.70 1.24 0.12 93°7 0.36 0.32 ŝ 96.0 1.05 03.0 2.28 1.44 Ica 0.72 0.24 Ê 0.37 1.22 0.48 2 - 64 1,19 U-17 0.29 0.86 0.47 Amount (Inches) 2.96 2.41 0.27 6 Paration (minutes) 1710 1970 1437 500 580 226 (9) 360 PROJECT SCS Experiment Stution, Tyler, Texas 3400PM 2 1 2 0 AM 12425AH 5 1 101'M 1 + 5 4 PAL Table of Began (hour) 9 2~F-Fb 2-F-Fb Ongs No. 2 7-F-4 7-1-4 2 7-P-4 7-P-4 3-F-A m 24 4 44 24 3 e c4 3 24 7.936 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 5.747 1-136 1.726 7.936 5.747 1.726 7.936 1.726 5.747 Arra (arra) (3) WATERSED Number 44 4 3 S m + 10 10 de 21 w 4 w C) 4 4 4 4 4 ê 4 m d S Feb. 13-14 Part-Table 7-6-de DAYS reb. 10 1933 an . 16 an . 29 lan. 31 | an. 21



#### Forta 8, C, 8,-845

PROJECT SCS Experiment Station, Tyler, Texas

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19 33 MEETS

>

Monrie Feb. Mar. & Apr.

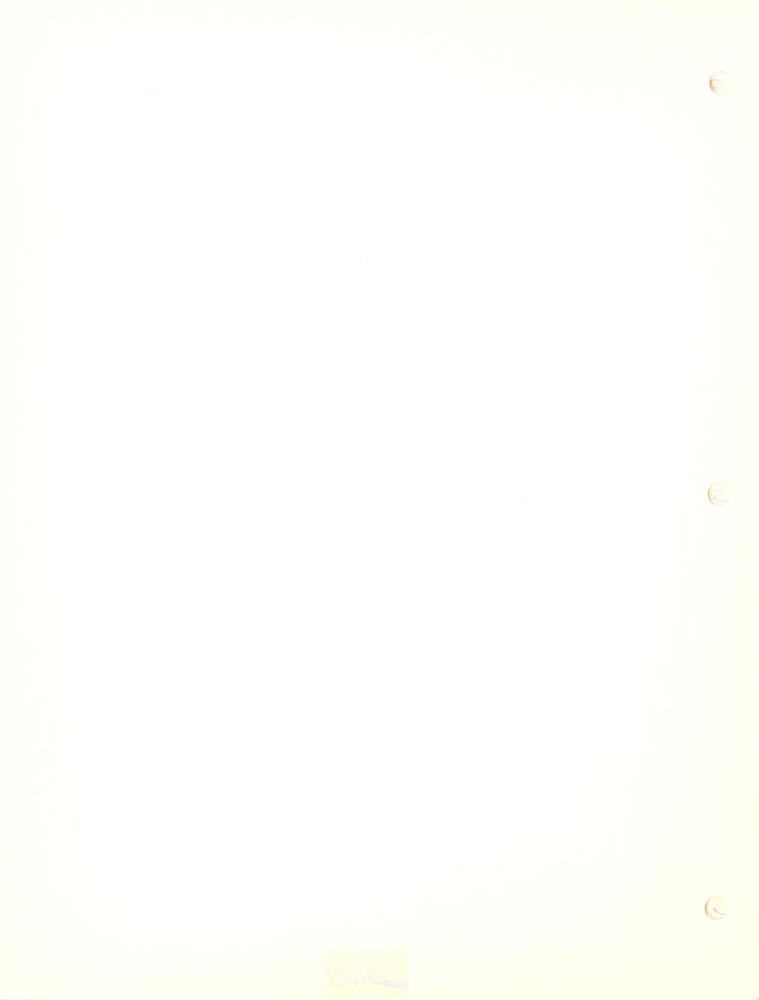
B

40

under Mar -20-2 Noode (caks) bars. Outs 6"; poor stand; Rye 6". Outs 6"; Rye 6" ... Outs 6"; poor stands Rye 6"
Outs 6"; Rye 6" Bya B" E C Rye 7" Outs 8" 1 poor stand; slys 8" 8 4 corn energing 2" control No. Woode, in leaf Oats 8"; poor stand, Rye ( Woods, beginning to leaf Rye 1 Зоинтов от Wатавинар Outs 6"; Noor stand; Outs 6"; No 6" Modes, bare Outs 7"; poor stand; I Outs 7"; Rye 7" Woode, in leaf Oats 8"; poor stand,... Rudleked Woods, in leaf Onte 8"; poor stand. Disked Woods, in leaf (01) Rye, Outs turned Woods, bare Bare, loose strip bare ferry Loss (lens per news) 0.183 1.004 4.403 0.054 5.102 00000 (14) RUNCOR (Inches) 0-760 0.550 0.704 1.692 1.183 0.828 13) 3,02PM 3,05PM 2,20AM 12,5585 0.290 7.35PM No rate 11,00PM 3,1952 Three MAXIMUM SATS (18) 7.03 11.00 No rate 1.57 12.5 No rate rate 1,15 25,83 4,30 0,12 Ou ft. mc. (19) No 0.240 0.276 Amount (Inches) 0.062 0.220 0.068 709.0 9 2150F3121Noon 0 210F31115F % 1 2113F% 544F % 2 SALT DOX O14917 1402AU 3135FM 412:FM 4 t DOPET 2 tent de Knuted (beaut) 0.5 Silt box TOG POK NRO SALE Silt Pagan (bour) NRO (13) NRO MESO NAO NRO NRO QIN NESO NRO NHO 56-45 56-45 56-45 45-42 45-42 Tenresattine (degrees F) 95 51 2 2 2 2 2 26 48 ផផផ 353 65 74-56 56-47 56-47 56-47 74-56 019 73 68 68 3 223 8 9 9 722 63 30 minutes (inches per hour) 76.0 90.0 0.26 0.62 0.78 0.28 0.08 7.36 0.24 (10) MAXIMUM INTROSPET (fact w per hour) 0.08 03.0 0.32 2.23 0.48 1 ABO 0.12 0.32 ŝ 6 minutes (incless per hour) 0.72 6.00 2.40 2,23 0.24 0.48 96.0 0.24 1.20  $\widehat{\boldsymbol{\varepsilon}}$ 0.26 01.0 Amount (taches) 1.00 1.75 1.00 0.76 1.04 0.98 27.0 0 .97 0.19 ε Duration (minutes) 1685 ê 495 382 145 825 203 275 943 218 11 25 SAM 5 a 00174 2145PM 12 1 50 PM 12 109EM 3125174 MYTEVO 4117PM 411544 Heges (hour) 9 2-F-Yb 1-f-C 3-F-A Oces No. 9 244 4 - 4 5.747 7.936 5.747 7.936 5.747 1.724 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 7.936 5.747 1.726 5.747 7.936 7.936 1.826 A res (acres) 6 3 8 4 4 m 4 0 m + v1 ल क य ø 4 44 m 919 m 4 5 -Fab. 25-26 March 30-3 Fab.26-27 Mrch 18 March 24 March 26 Arch 27 Apr 11-10 March 5 1933 DATE Ξ

nest rain

800



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

33 SHEETB

10

MONTH ADE. & MAY

8

OF 3

SHEET

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS PROJECT 6CS Experiment Stution, Pyler, Texas

1-8-C Y-E-F

7.536

w 4 v

April 14

7.936 5.747 1.726

4 4 5

April 20

7-956 5-747 1-746

7 4 10

22 Lizque

7.536 5.747 1.726

943

2 2

April

7.936 5.747

w 4 €

April 13

(3)

ê

Gage No.

A rea (actres)

Number

3) 4.78 1933

Watssied

andd Hot Corn 8"; sudun Lruse & cow pous 1", cultivuted April 15-18 Corn b"; sudan Frase a com peus doctu, in touf
Disked; woil 100se April 11-12
Corn, sudun frass & com pers
on control strip cow peue gnod Doug Yated grod Cotton planted Bin-13th Corn 15" tainned, culti w Loase, burs Corn, audun crass a cow KON M OO Houtsked hay 1-3 Corn 12"; sudan grabs a. Cultivated Lay 1-3; 3" biro, looso Corn 6"; sudan Erass a. on control straps lg" COMPITION OF WATHURD હ Corns sudan grass & noods, in leaf Barc, loose Corn, suden grass & (18) Noods, in leaf. Bures 10080 bure, loose du ton Nooda Hoody woods 0.088 C.691 0.444 0.017 0.465 197.0 0.040 0.484 Star Loss (tota per pers) = RAIMFALL MINUS
RUN-Our
(Inches) U.840 0.704 0.699 0.505 0.661 0.674 (13) 0.524 3115/2 11,48/2 3(11/4 12129ns 10112FB 12 (53r) 12,581 Time 9() Maximum Rars rute rute 0.41 2.48 1.37 0.93 Ou ft am ON No (18) 0.020 0.146 0.209 C.231 990.0 961.7 0.045 RUNCORE = NHO 11:50AL 5:15AL 11:38AL12:53AL 2:57AL 4:46PL 4.53rM 41101th 4:05PM Cnuted (Itour) 8 prix bux 10:19PN 9:50£2 12,48PM 12,36FM Silt 21441W 5114 Began (hour) (1.5) OP"1 Nrtt Nirtt g H Day of the Court 911 NRO 76-83 59-59 76-83 59-59 76-83 59-59 67 200 47 40 40 622 622 623 29 57 3 3 3 Genterating (clogram F) 1 222 65 65 65 200 29 36 76 76 E 25 E 77 8 4 4 B (Inches par bour) (Hickes per boar 1.18 1.04 Sec. 05-7 U.64 U.38 0.14 05-0 75.7 MARINUS INTERNITY 4900 1.72 1.00 U.24 96.0 1.64 96-77 4.52 1.40 3 S minutes (Highen per Bour) ( 4044 0.36 2-16 3.12 2.40 2,28 1.60 2.04 1.92 9 RABBEALL 6-23 0.57 0.76 1-20 0-95 0-85 10-0 6-18 0-17 0-52 0.51 1.10 U-52 L-59 U-67 Amount (Inches) 8 Duration (minutes) 335 411 345 157 245 590 160 104 ê 23 2127rh 5137AL 12 1 20 P.E. 312111 BASSPL 11 100 AL LOALTAN 214617 4 252 mb Hegen (hour) 9

210

7-936 5-747 1.726

w 4 n

April 29

N H m

7.936 5.747

m 4 v

4

Yah Yah

an m

7-936 5-747 1-746

m 4 -1

1 yar

7-836

440

inay 15

-Sue next rein



POSTS B. C. 8.-848

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SOIL CONSERVATION SERVICE
DIVISION OF RESEARCH

Month May & July , 19 33

Corn 20", sudan gruss & cow peus 6" on control atrip Some cutton up, soil loose Corn 30"; sudan gruss a cow peas Cotton 6" to 14"; cultivated 30t. Corn 5"; sudan grass a cow peas Cultia in June Woods (ouks) in leaf Cotton cultivated 14th-17th Corn 66%; sudun grass a com peas Corn; sudan grass & cow peas 6" Catton recently cultivated, -Lorn 5'-4", undan grassa com Cotton not up, soil loose Cotton not up, soil loose 20" on control strips Ø 9 Woods in leaf OF. Moode Noods SHEET (tons per acre) 10000 0.067 1,310 2,142 0.127 3 ADMINIST. MINUS. RUN-DIP. (Inches) 3.082 2.168 2.536 1.671 2.612 (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 7,53AU 7,33AU 7,44AU 9,02AU 4:17PE 4.02PM MAID AD 1157PM 3155PM 4143AM 2102FM 0.56 4.51AM (88) Manuous Rays. Time 1.57 1.27 8.38 3.26 0.08 Ou ft pac 0.22 9-94 6.22 0.01 2.99 1.05 (18) 0.038 0,718 Amount (Inches) RUM OFF 0.014 0.629 0.612 3.4 7.102434 8.39434 7.102434 7.150434 6.140,24 8.132443 8.15248430.4743 5-25 51590M 3148PM 61531M 4140AM 6153JM 1.51PH 2.35FW 3+33PM 4+371M 5-25 5-25 4:374M 8:30AM 1 154PM 2154FM 51041.4 Rade ( (bour) 5-24 5-24 (13 5-25 4.453M 3137PM 5-24 Plegna (bour) 5-24 5-24 5-44 (32) NRO NRO NRO 7-54 NEO NEO NRO NRO 75-72 64-63 04-68 64-63 64-63 69 TRAFRATURE (dagress F) 65 65 659 75 75 Ê 94-89 94-89 64-6B 84-68 201 86 86 86 88 88 4 4 4 (Inches per bour) (Inches per bour) 1.58 1.16 2,10 1.06 0.22 0.24 01 MAXISUS ISTANTY 2 .08 2.84 0.44 1,68 0.40 ŝ 2,96 (inches per hour) 2.88 4.68 1.08 0.72 2.04 3.84 RAINTALL Amount (foches) 2,55 2.78 0.64 0.62 0.54 2 .60 0.16 010 0.80 3.25 6 1527 Daration (misutes) 448 785 95 22 2 Phosecr SCS Experiment Station, Tyler, Texae 11,25AU M40019 1.46PM 5 . SOAM 612244 3.2BAM Regard (bottr) ĝ -F-Pb 7=P=4 1-F-C Oags No. 244 N 4 e 77 NIM लानन 7.936 5.747 1.726 7.936 5.747 7-986 5-747 1-726 7-936 5-747 1-726 7-936 5-747 1-726 7.936 5.747 1.726 1.726 A Ta (3) Number ê m 4 9 444 44 10 40 May 24-25 May 24-2 May 24-2 July 15-July 19 May 29 July 4 May 21 DATE 1933



Form 8, C, 8,-345

E 4 1

July 23-

Dare 1933 ध्य का त

July 26

S 4 5

29

July

6 4 a

Aug. 6

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVIBION OF RESEARCH

10 33

Jule & Ang.

MONTH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

COW PS & B cow peas 34" peas 24" peas 24" peas 24" BHEETS - smed peas peas Woods, in leaf Cotton 24"-30" Corn 1"-4"; sudun grass & c COM 20 C COW EOW. COW MOD turned under Зоиритон ог Wарканиц 8 4 Woods, in leaf Cotton 10#-24" Corn; suden Eress & Woods, in leaf Cutton 10"-24" Corn; sudan grass & d Woode, in leaf Cotton 18"-30" Corn, suden grass & ત્લ anden grass a. Woods, in leaf Citton 18"-30" Corn, suden grass A Corn; sudan grass. Budan grass 0.0 Monda, in leaf Cotton 24"-30" Corn mature, in leaf 10"-24" 18"-36" 18"-30" d Woode, i Cotton l Corn; su Woods, Cotton Woods, Cotton Corn, B SHEET Strr Loss lots per acre) 1.466 2.210 0.962 (3 H) HAINVALL MINUS RUN-OPP (finches) 1.094 0.620 0.898 33 4.42PH 3126PW 7.25AM MAKINUM BATE Time (18) rate Ou ft sec 1.57 No 1.05 2.48 No (15) 0.170 0.342 Amount (inches) 7.16AVIO:12AV 0.166 S11: box 0.053 (14) 3.25PM 7.55PM O 3.25PM 7.55PM O 22.P收( Puded (hour) 33 4136FM 5-1 NBO NBO NBO NRO Begna (hour) 74-69 74-69 74-69 TREFFRATURE (dogress F) 69 75 200 200 200 5 5 5 9 252 77 80-82 80-82 80-82 200 84 84 84 81 81 81 E 60 60 2 2 2 8 8 8 689 444 6 minutes 18 minutes 36 minutes tuches year hour) (inches year hour) 0.20 0.28 1.58 0.36 0.32 1.40 0.86 2.23 0.22 MAXIMON INTENST 2.60 2,80 2.00 0.44 0.36 1.24 0.44 0.36 0.64 0.72 09.0 1.68 0.72 3.78 2,40 3.60 0.84 2 a 64 î RAINVALL Amount (Inches) 1.1 1.20 0.11 0.34 0.75 \*C.99 U.17 1.20 0.36 0.80 6 Duration (minutes) 3245 155 508 130 123 567 9 85 PROJECT BCS Experiment Station, Tyler, Texas 2 4 20AM 7 & 25PM 10157ak 3145FM 7 123AM 6445AV 4153PL 3 LOOPL \$134FY Bognu (hour) 2-5-Kb 1-F-C 3-F-A Oago No. rd rd rd ରାଳଳ alam 20 7.936 5.747 1.726 5.747 A res 7.936 5.747 1.726 7.936 7-936 5-747 1-726 7.936.5.747 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 W ATTREATHED

440

Aug. 12

444

Aug. 7

44

Aug. 13

w 4 n

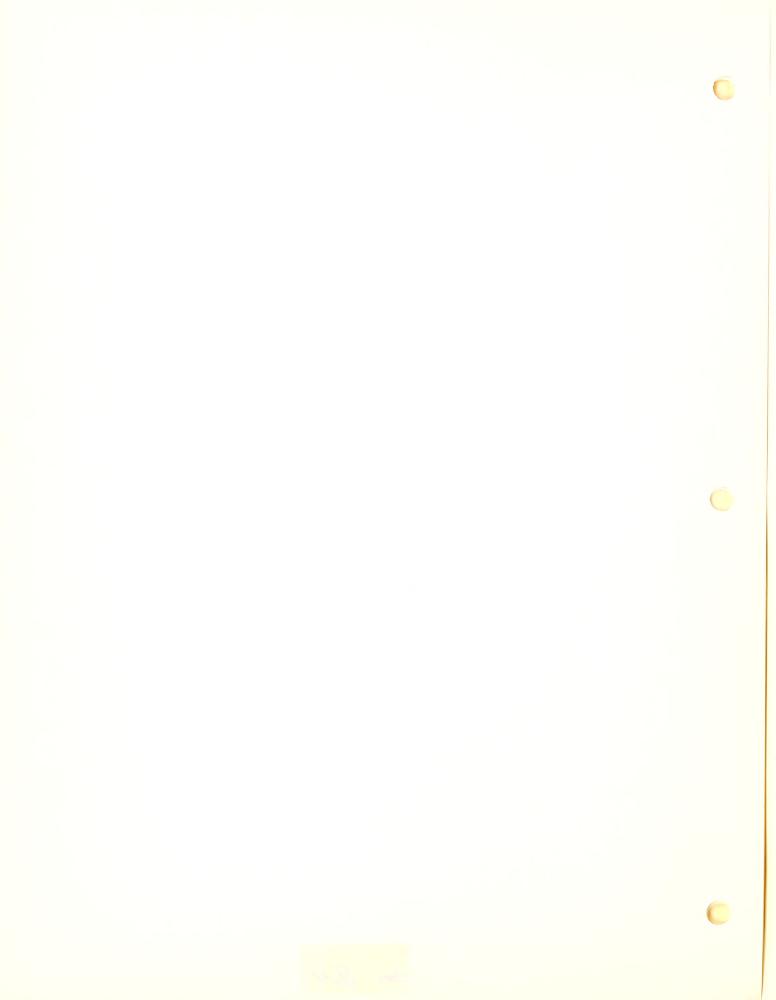
Aug. 17

m 4 3

52

of aug. 6 & 'i shown as one rate

Rain



Form 8, 0, 5.-848

Phozecr 508 Experiment Station, Tyler, Texas

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 10 33

MONTH AUG. Sept. & Oot.

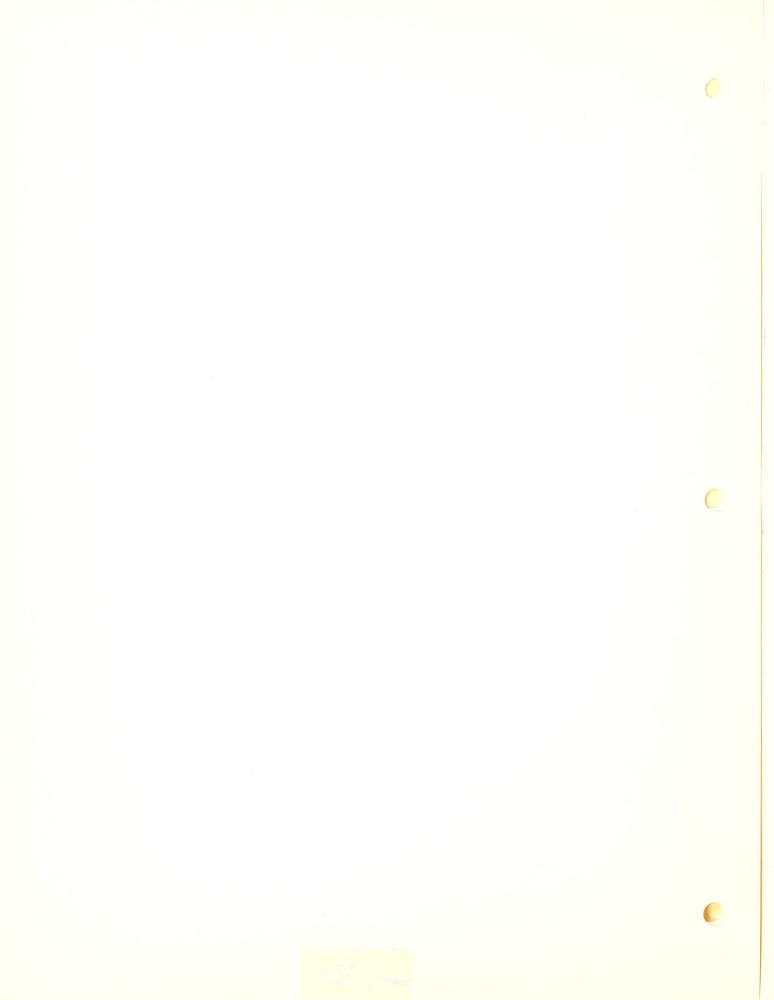
10

g

Cotton harvested; outs pleated BULLIN Woods, in leaf Cotton, cont'd out planting Outs drilled on control strip Corn stulke cuticontrol strip Corn stubble; control atrip ď Woode, leaves turning Cotton stalks; outs not Outs a corn stubble CORPURIOR OF WAYARED Woods, in leaf Cotton 24""30" Corn stubble; bare 8 Corn stubble; bare Moods, in leaf Cotton 24"-30" Corn otubble; bure Woods, in leaf Cotton 24"-30" Corn stalks; in leaf 24"-30" Woods, in leaf Cotton 24"-30" Woods, in leaf Cotton 24"-30" Corn barrested Woods, in leaf redisked Woods, Cotton 0.001 1.502 next EX) Strr Loss (tons per sore) 190-0 2.358 0.053 90000 0.000 Ê Maintall, Mistus RUN-OFF (lisches) 2.247 1.157 1.917( 0.386 1.045 0.415 0.399 0.332 (13) 0.20 10.18AM 10.20 10.05AM 0.22 10.10AM 1.34PM 3.50PL 2121PE 2125PE Thue MAXIMUM RATE 98 rute 0 FE 0.71 1.72 Ou fft. pen. No (18) No No 0.014 0.013 0.105 0.245 0.031 0.008 Amount (Inches) rain (14) Sapt.M Sept.10 1:29FM 3:07FM 3:43FM 5:12FM 91594M11264M 91574M 11274M noxt negt 3.531 W. 2.501 M Rindout (hour) y oq box (33) рoд 900 SAIL NRO SA1t NRO 2,11.PM 2,12.PM SA11 Недва (Бияде) NIRO NIRO NIRO NEO (13) 200 NRO NBO NRO 71=68 71-68 (degrang F) 73 73 72 42 42 42 3 3 3 73 73 77. 73 202 77-02 12-05 88 88 88 77 # # # 84 84 87 87 Months per hour) 0.78 1,74 0 0.46 0.50 1.22 0.08 90.0 0.54 0.44 MARINUM INVARIATE # minutes | 16 minutes | (Inches per hour) 1,28 2,68 1.08 0.88 0.68 1.88 0.16 0.76 0.56, ŝ 2,70 3.72 1.80 95"0 2.16 0.36 3.00 1.80 0.72 Ê RAIMPALL Amount (luches) 0.37 0.30 1,19 2.25 1.64 2.03 2000 0.43 0.46 1.46 0.62 0.50 6 Puration (minutes) 2352 <u>©</u> 127 140 670 140 162 115 35 7 12157PM 4,101'M 412014 M70516 2 1 00PM 12:45FU 10:40AM \$123AM 614312 Began (bott) 2 7-F-4 1-F-C 3-E-A ž ला ल ल Ģ 24 M M M લાનાવ 21 11 22 3 es u m 24 4 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 7.936 7.936 7.936 5.747 1.726 1.726 Area (nones) ê WAVERABL Number m + 4 ल क छ ল 🕶 4 W 4 7 ल का थ m 4 m m 44 vi W 4 U W 40 iapt +9-10opt. 11 Sept. 12 Sapt . 12 Sept. 24 Sapt. 27 Aug. 31 1933 11 Aug. 29 ВАТИ Oct. 1 Ĵ

Sept.

\*Ses



## UNITED STATES DEPARTMENT OF AGRICULTURE

, 19.33

Monry Qota Mova & Deos

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Strip croppedicorn stubble seats BILEGIS Woods (oaks) leaves brown Woode, beginning to shed Cotton 24"-30"; oats Cotton dormant; oats 3" Woods, wery fow loaves Cotton stulks; outs 1" Corn stabble; outs 1" Cotton stalks; oats 2" Corn stubble;cats 2" Corton stulks; oats 2" Corn stubble; oats 2" Woods shedding Cotton stalks; outs 1" Corn stubble; onte 1" CONDITION OF WATERBED Woods shedding Cotton 24"-30"; oats Corn stubble; oats 8 40 Corn stubble joats bare stalkas Cotton; oats bure bare 7 Woods, Cotton Woods, Woods, SHEET firs form (form per evre) 3.942 0.155 0.004 (18) HUN-OFF (Inchw) 3,119 1.229 3.854 (13 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 8409AN 10433F2 141941 12,51At 2,17At 3,05At rate (10) Тјши MARINGH BATR No Cu ft mc. (19) 27-0 0.02 7.39 0.791 0.051 0.066 (14) NRO BADSAN BI43AN 10.28AN10.53AN S11t box 121604H 116 224 AM 215 AM 215 AM 215 AM Dec.16Dec.16 1:18AM 1:36AM 2:00AM 5:29AM 2,5542 Began (hour) (13) NRO NRO NRO NRO NRO NRO NEO NEO NEO NEO NEO NED NRO NRO NRO 58-61 58-61 19-BT 65-62 999 63 63 929 65 3333 63 (degrees F) 77-72 7-72 7-75 77-75 222 8 8 2 B 3333 85 85 85 B2 82 8 E E 8 minutes 16 minutes No minutes (inches per hour) (inches per hour) 2,02 0.34 0.16 0.08 0.16 1.16 0.22 0.30 (10) MARKET INTERPRET 95.0 0.24 0.16 0.16 0.40 2.44 0.40 1.08 3 3,22 1.44 0.48 0.24 0.84 3,00 0.84 0.24 Ê RAINFALL 0.13 1.03 0.19 0.03 0.98 1.36 1,10 0.22 3.92 3.91 6 Peration (minutes) 1466 415 312 153 103 099 130 12 PROJECT SCS Experiment Station, Tyler, Taxas 11 : 40av 10152AM BALDEM 2145FM 8 BIABEN 1 4 5 2 A M 11 50E Beran (bour) 9 6 1-F.G 3-F-A 2-F-Fb Š, Ones 210 24 69 ला न ल 7.936 5.747 1.726 7.936 7.936 5.747 1.726 7-936 5-747 1-726 7-936 5-747 1-726 5-747 7.936 5.747 1.726 1.726 5-747 7.936 Y La WATELEER Number 9 4 4 Dac 1+2 Oct. 1\$ Oct .. 23 Mov 3 Oct. 13 Dec-15-16 Dec.15-16 Oct .. 1 Dec. 5 1933 Вати



Ports 8. O. 8.-848

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF WESTANCE

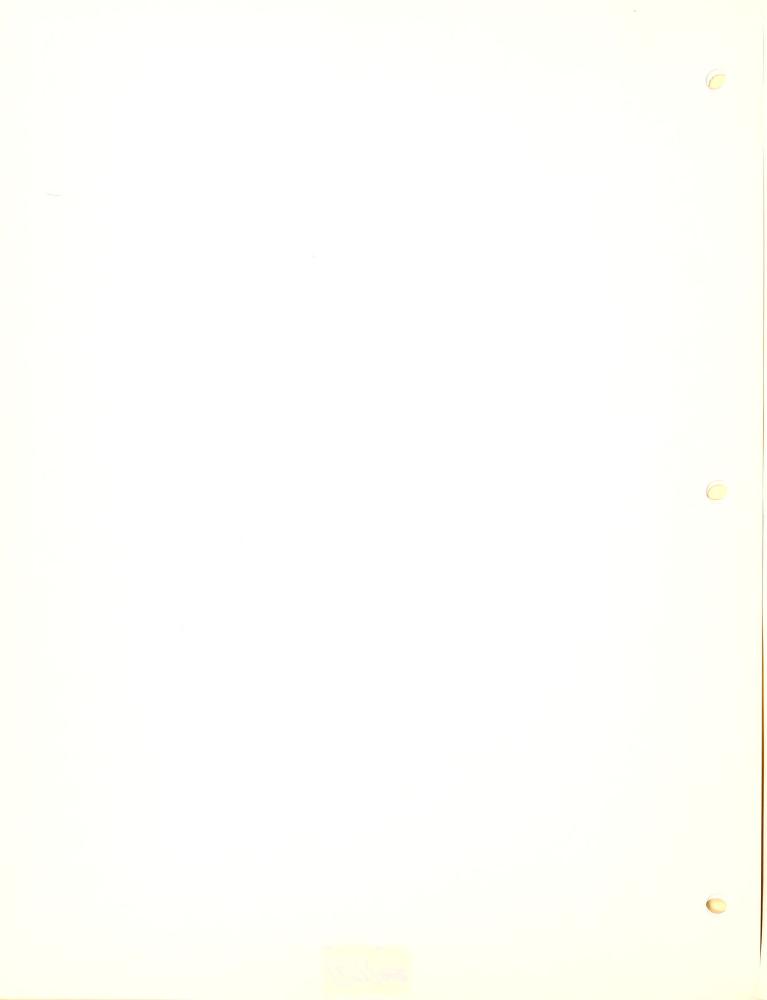
RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

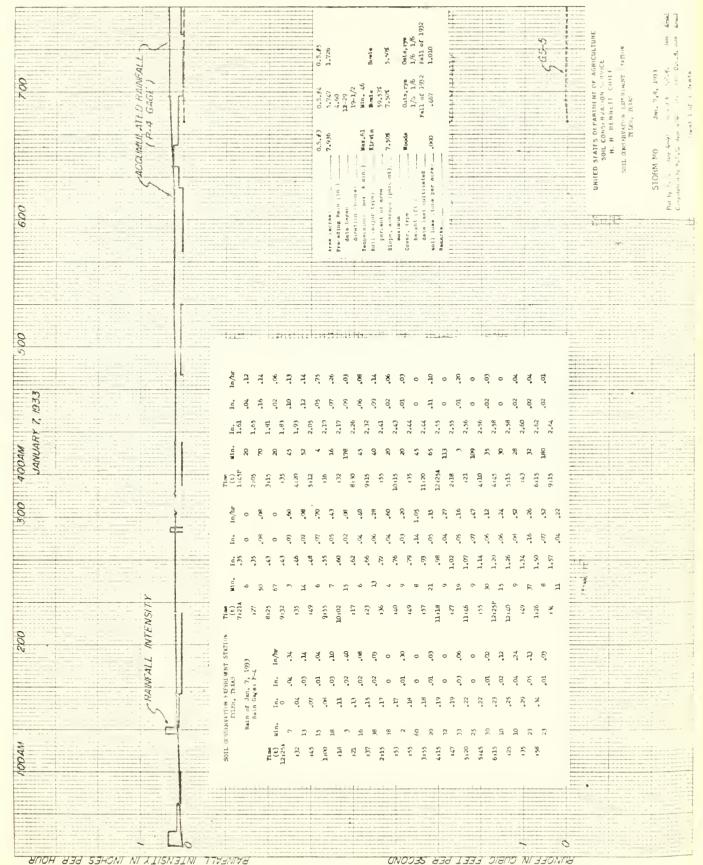
, 19 33

De0.

)

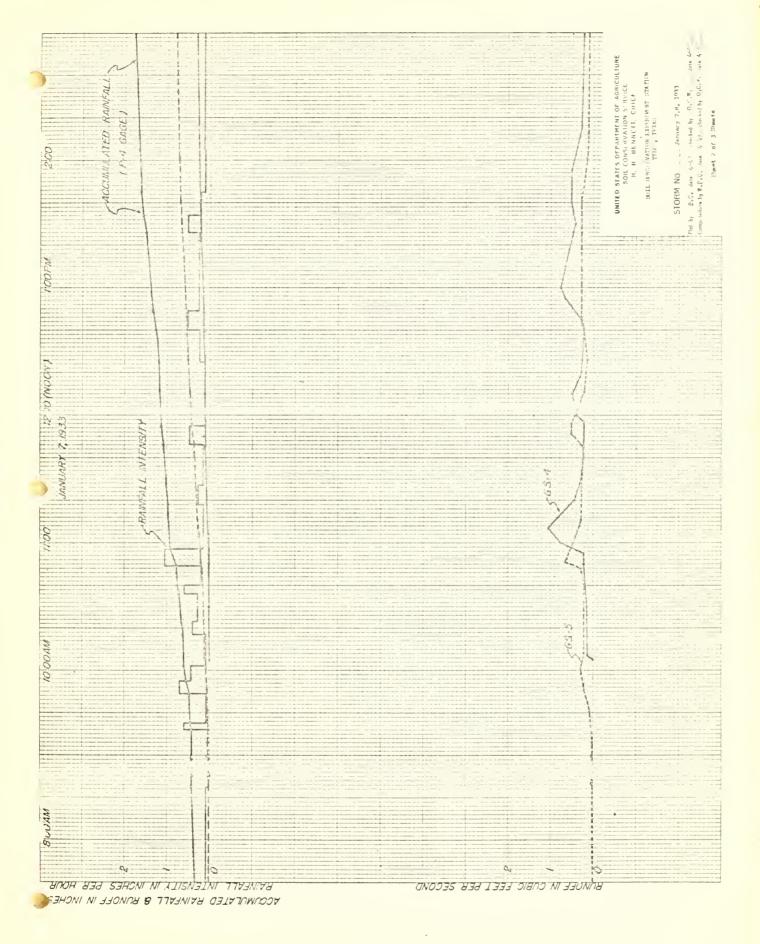
SHEETS Moode, bare Cotton dormant, oats 3" Corn stubble; oats 3" Outs. 3"; cotton stalks. Corn stubble; oats 3" Cotton staiks; outs 3" Corn stubble; oats 3" Оомиттой ог W атванив 8 8 Corn stubble; oats Woods, (oaks) bars (19) OF Woods, bare 80 SHERT (tors per ave) 0.000 0.055 (3.8) HAMPALL MINUS HOW OPP (Inches) 3.249 1.581 (17) 12145.03 2120AK 6.43172 7.35172 146152 rate (16) MASSHUM RAYS Time W 0.56 Ou ft mo. 1.72 0.51 (19) Amount (linchess) 0.551 0.257 £ Dep.16 Dec.16 12f34av 1.50av 150av 5:50av Dec.29 Dec.29 316374 55.8174 611874 75.3374 7.3374 911374 Dec.30 Dec.30 911344 31.374 Foods (bear) (1:3) Silt box (13) Pegan (hour) NRO NRO NRO NRO NRO NRO NHO 35-45 35-45 65-62 (degrees F) 63 2 2 2 Ē 77-75 43-64 43-64 74 74 74 74 40 40 Hamilton (Inches per hour) 0.40 80°0 0.38 (01) MAXAGOR INTRIBUTY 0.08 0.40 0.68 3 6 minutes incluse per hour) (i 3 0-12 09-0 1.44 RAIMPALL Amount (inches) 3.80 40.00 0.91 1.50 1.69 6 Duration (minutes) 2540 925 ê 40 PROJECT SCS Experiment Station, Tyler, Taxas BA &Oak 6145AV 14352 Began (bour) 1-5-C 3-F-A ď 3-1-A Oage 2 1 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 1.726 1 P ŝ Number ē S 0 4 W e 4 Dec.15-16 ec -29-31 Dec. 29-31 Daru 10c . 28 Dec. 17 1933 Ξ

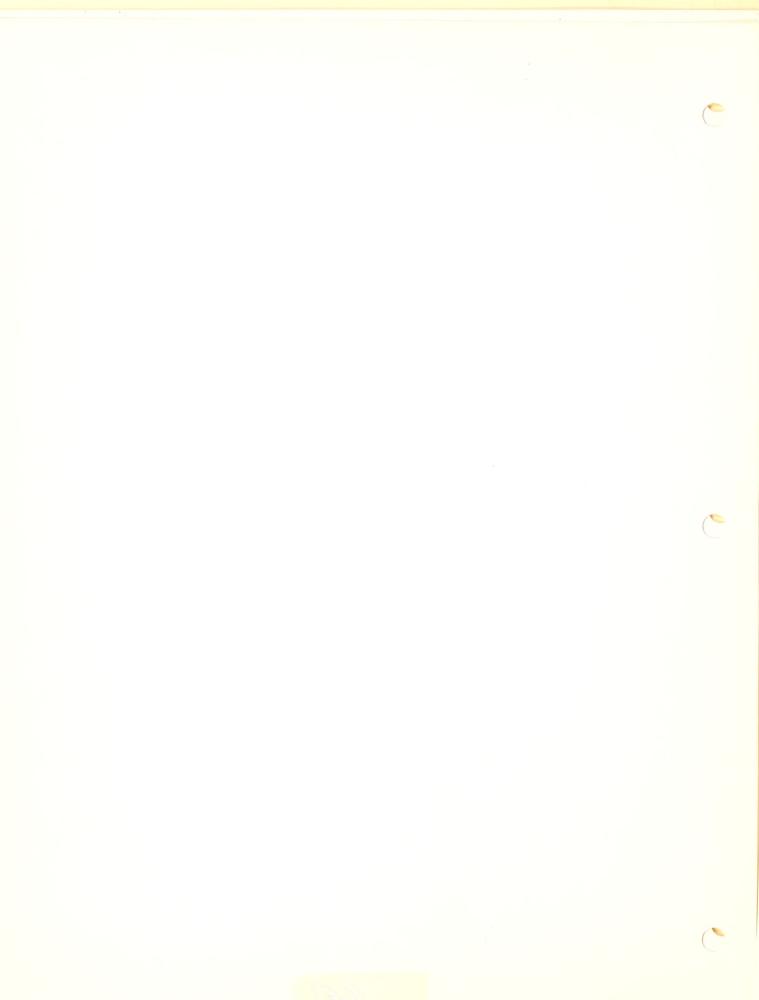




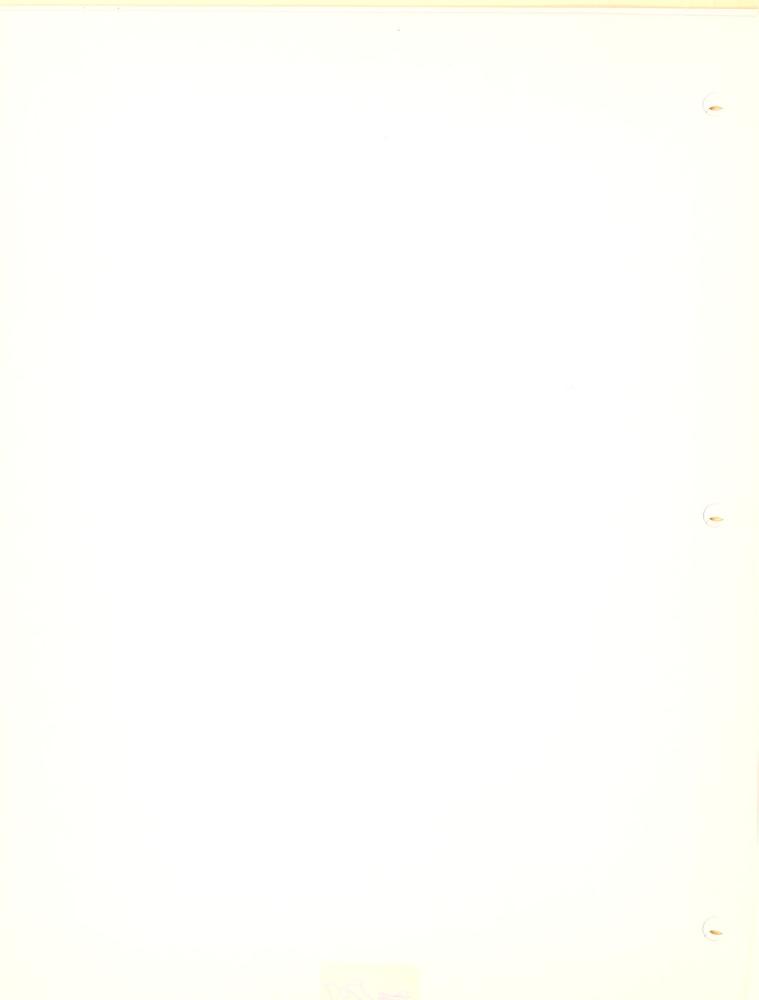
ACCUMULATED RAINFALL & RUNOFF IN INCHES

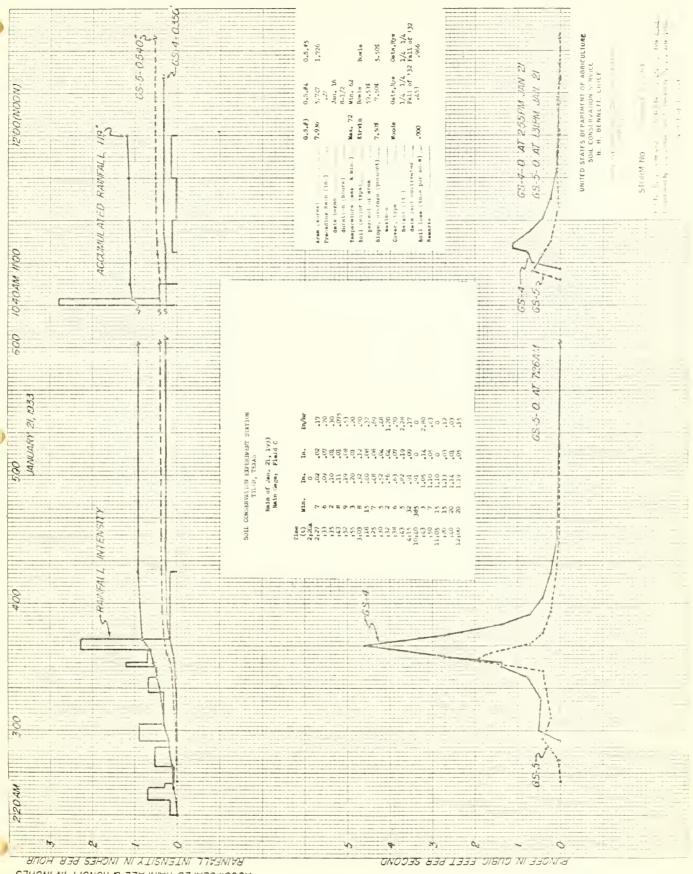




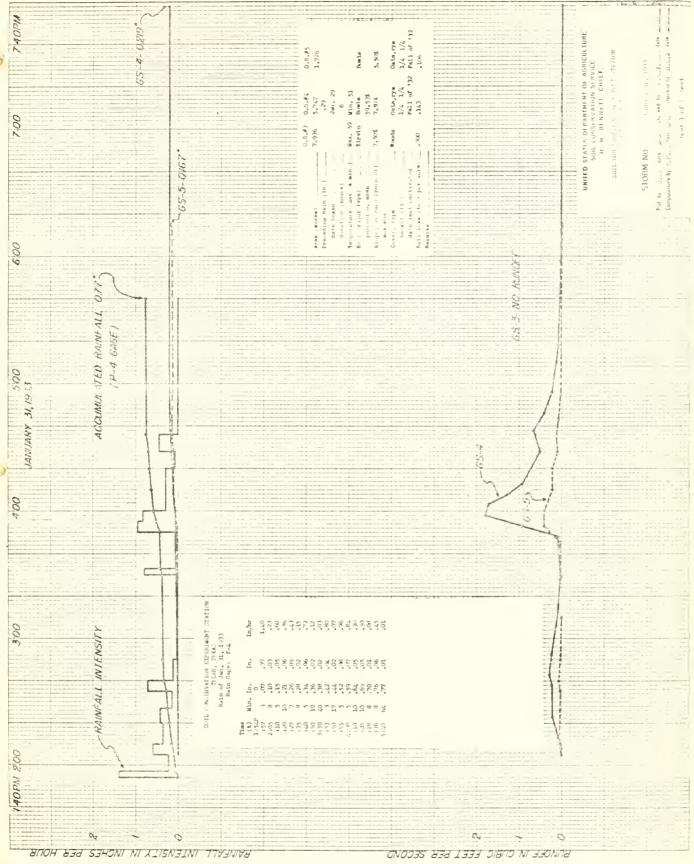


SCOAM SCOAM SCOAM	CUNULATED BRINEAUL 264"	65-6- (1982)	65-4-07-2	65-3-0098"-5"			3-0 AT TOLFM	65.5-U AL 74. Phi 1.5 M 3, 1933 65.5 450M-006	150 State of the s	UNIDED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSTRUATION SPROACH. H. H. BENNETT, CHIEF. R. 1.1.	STORM NO and the state of the s	For the same and size, contact to the same and the contact to the same and the same
00.6												
600 87 7. 1933		,	WENSIFY				6.20 CIE		The second secon			
SANUAR			S RUMENLL INTE					63-42-				
*								:	10 C C C C C C C C C C C C C C C C C C C			
81	N, OH 838	SHONI	NI X 115N 3	ACCUMULATEO  RAINFALL IN		83d I33			18 N	Management of the second of th		y dis-  y and y dis-  y and y dis-  y and y dis-  y and y dis-  y dis- y d









ACCUMULATED RAINFALL & RUNOFF IN INCHES

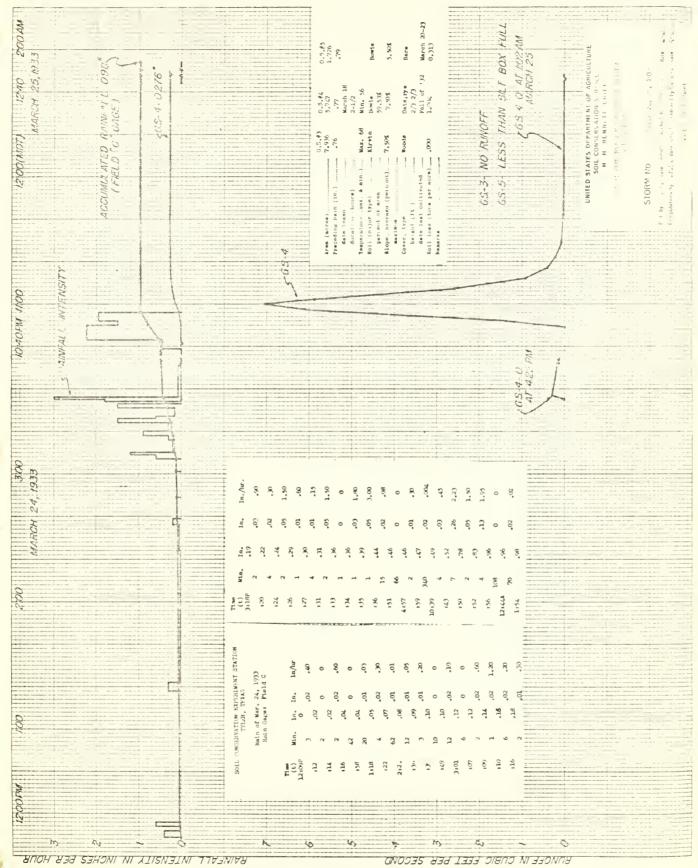
нд00)6	AGCUANULATED RAINFALL 100°	\$5-4-0840		The control of the co	% 7.50% 7.50% Woods		65.4.0 AT 1200 (MOT.)	UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSTRUATION STRANGE H. H. BENNETT CHIEF J. H. DAR. H. J. S. P. S.
00	7000			Anna Versal	remarkation and the product of the p		9	UNITED STATE SOIL SOIL THE POST STATE CAMPING STATE
7.00		100 pt 10	.n. .0.		88 9 24 12 12 12 12 12 12 12 12 12 12 12 12 12		65-5 NO RIWOF THOS CHART	
600 MARCH 5, 1933			1 .40 .60 .77 .38 .38	& 0 & E &		6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6		
9099	ALL INTENSITY		Tive Min. 1 (t) (1) 3150 2 2 1552 3 1552 3 11	2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	142 5 57 04 147 8 61 04 155 2 65 0 177 2 65 0 179 2 65 0 179 2 65 0 170 2 65 0 170 2 65 0	5° 5° 1° 1° 5° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1°		
0005	-RAMEAL		CONSTRUCTION EXPENDIMENT. TYLON, TEXAS RAID OF Mar. 5, 1933 RAID GREET PROJ.	. In. In. In. 20	10. 0 & & & & & & & & & & & & & & & & & &	3 .26 .06 1.20 2 .22 .02 .60 2 .22 .04 1.20 3 .26 .03 .60	3	
3000 FW	tų -	A LISNAINI	3010	(t) 2.45P 3.00 3.00 6.05 1.05	E	8 2 2 2 2 E		0



000	
750 RAMERIL 077	11, 10, 11, 10, 11, 11, 11, 11, 11, 11,
SOOP IN MAN TO SEE TO S	SOIL ON HUNTING EN TILES, TO TILES,

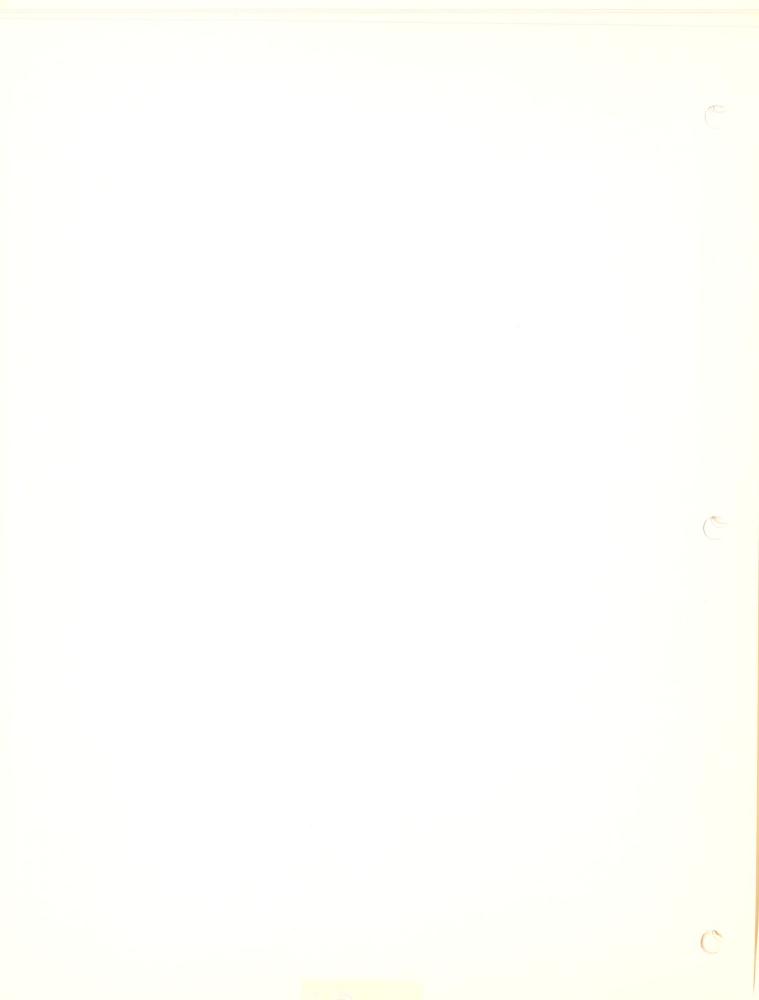
ACCUMULATED RAINFALL & RUNOFF IN INCHES

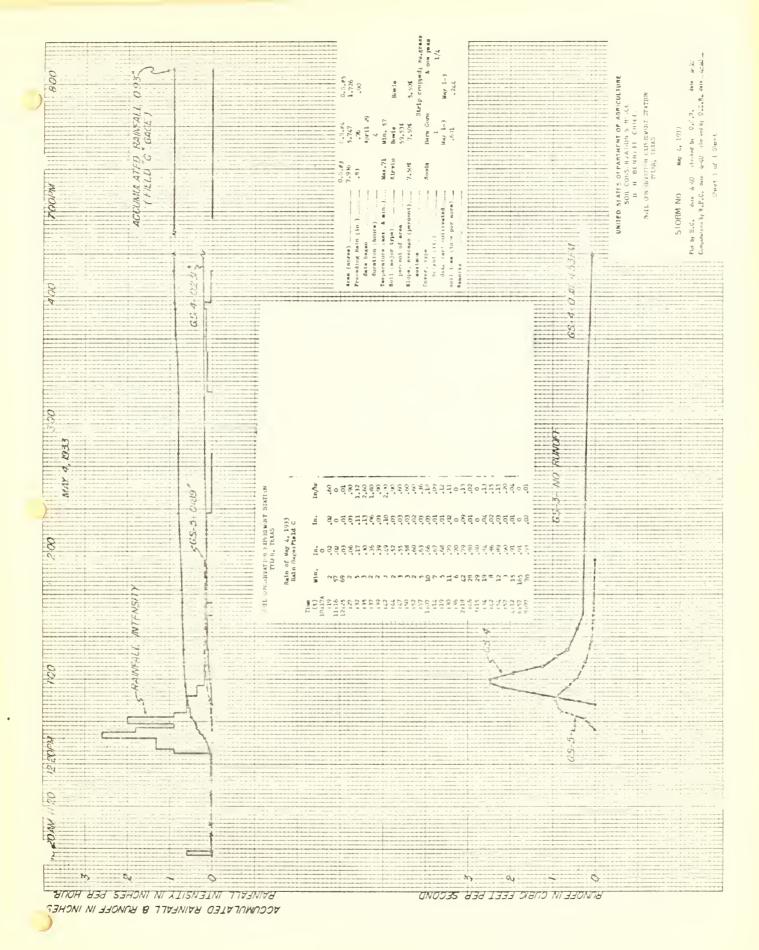


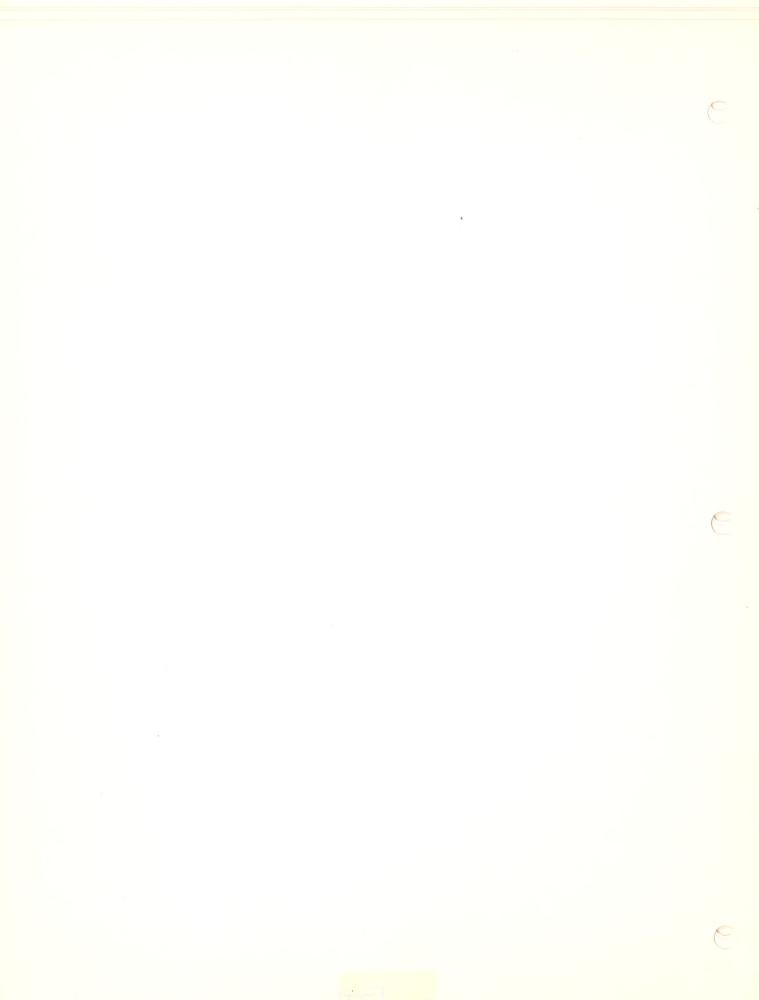


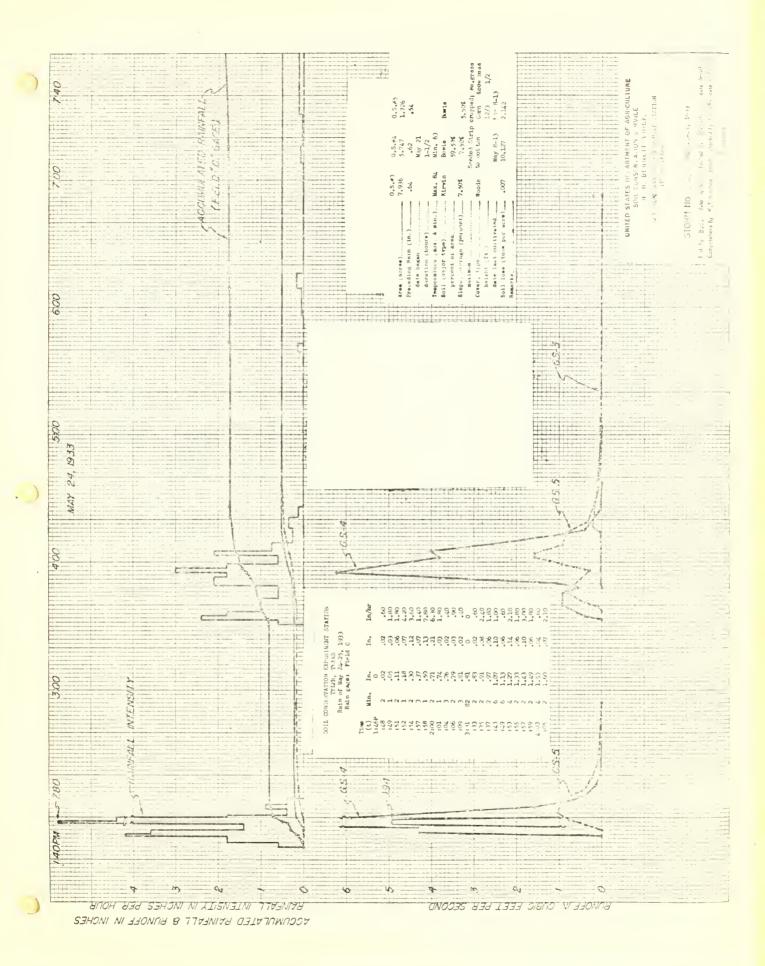


	00				607			. 6-12	3/26	Nacogdoches	On to	3 \$69*						स्टार्स्य भ	
	•		33 A.M.		GS-5 O				w.?								ECULTURE JE 0, 1933 TATION	New Trees Office Consists of the Consists of t	
			CG-4 1149 AT 11,53 A.M.	840 AM	B AT 12:0			Ter. K-5	3/26	Kirvin Not available	Boznade	6£0°	,				NENT OF AGR ATTON SPAVIC TT, CHILF March 3 KERRIVENT S	ricias od by <u>QsCrffa</u> Uheckod b	
	8			TER-C-12 0 928 AT 840 AM	GS-3-00 UB AT 12:00 NOON			1.726	3/xe 4-1/2	Brwie Not avellable e so	Fallow	5,302					UNITED STATES TRAININGS TO A AGRICULTURE SOLL CONSTRUCTOR OFFUT CR. H. H. HENNETT, CHIEF MARTH, CONSERVATION FEVRILMENT STATION	티	
			ACCUMITATEO RAINFALL (FIKLD "C" GAGE) 1.75"	TER-C-12					3/26 4-1/2	Bowle 59,53	Oate	1,00					SOIL 0	Comparations by	
	200AM. MARCH 31 193.		ACCUMILA (FIRED "					53	3/26 4-1/2 8-3/2	Kirvin Not evatlable	o eg	٠					]	Plot Comp	
	DOAM. MA			<b>=</b>						4 .		unberton pae ocrei							
	8			T.	T 5.35 P.M.			Aron feeren)	Presenting Rein (In) date tragen dweeten (hours)	Turngers are (max & gall (maker true)	Single except Sessor marklion Cover bype	heunt (f)) (dischas rubbehad (soilleme (fore ocre)) (Rems-he							Sheet lof Sheet Nicer force
	8			108-5	N 5 0250														S S S S S S S S S S S S S S S S S S S
	<del>-</del> 8		1		TERN 5 02 50AT 535 PM.		. (:) At At In. per hr.	72 75	0.06	£ 6 ≈	\$0° 0° 50° 50° 50° 50° 50° 50° 50° 50° 50	377837 2837 2837	22258	52.25 35.55 5.55 5.55 5.55 5.55 5.55 5.5	279 888	22.22.22.22.22.22.22.22.22.22.22.22.22.	0.12		
)					, i		d In ta						`			00. 00. 00. 00. 01. 01.			
	Q											23 000 24 000 25 000 27 000 27 000			1000	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			
	4 00					Meld "C" Rain Care (1) (2)	t Pin.			£ 5 € 5 €				# 5 X 2 C				C-12	1
						Ne14 "C	Ting (t) 30 10:21		1011	751 [71 [77]	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2512 2513 2513 2513 2513 2513 2513 2513	1920	3E3E2	851 101 103 105 105 105	28885	45. 18	TER C	
	720			1		2583	a la	Į		1		<u> </u>			-		Har		\$ 2 / S
	8			10	Y		1												V
1	н 30 1933	0				129 a													2
	2 00 PM. MARCH 30193	120			15										*				
	8		aolismi e:	FOH 7					€						0				
		n 0	word was excited to	यातः	0			ō		6	Ó	5		9		4	P)	-	0

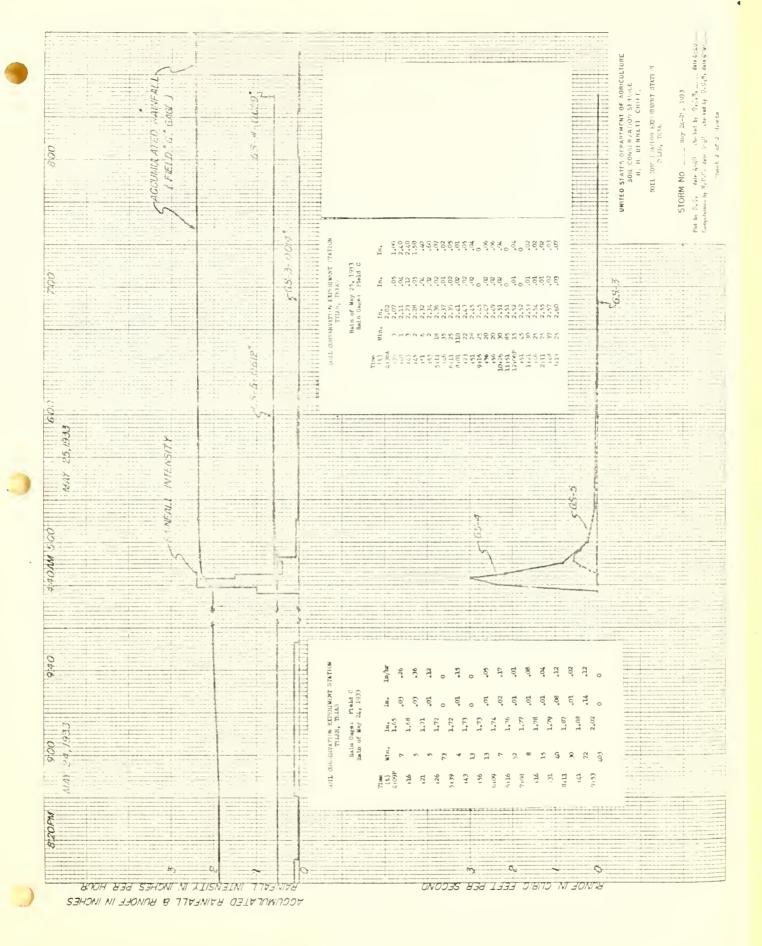




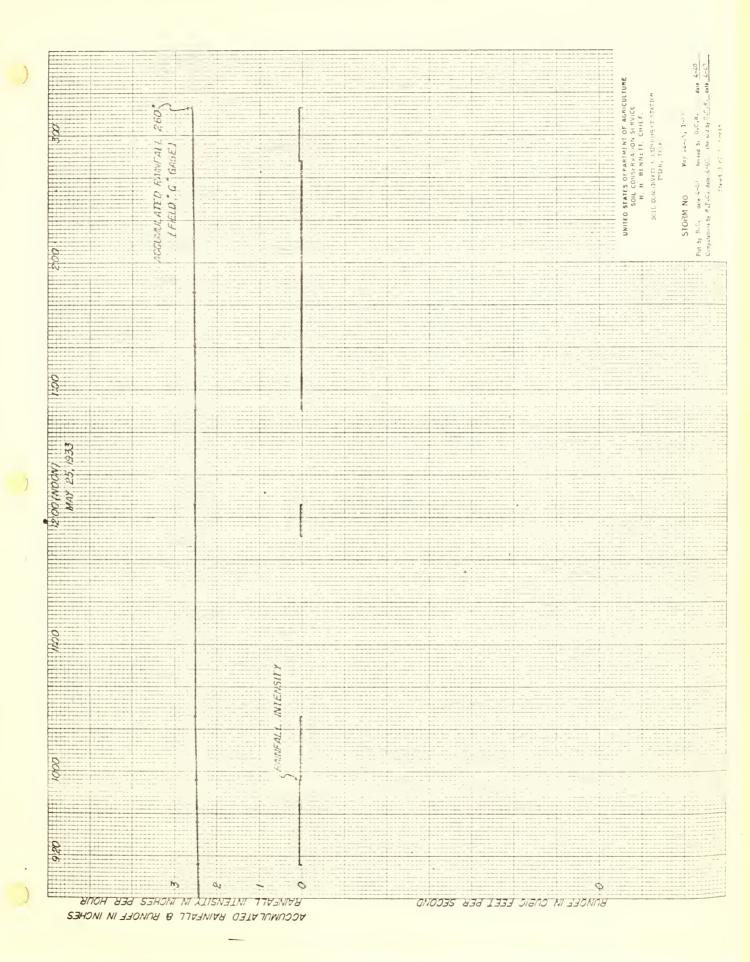




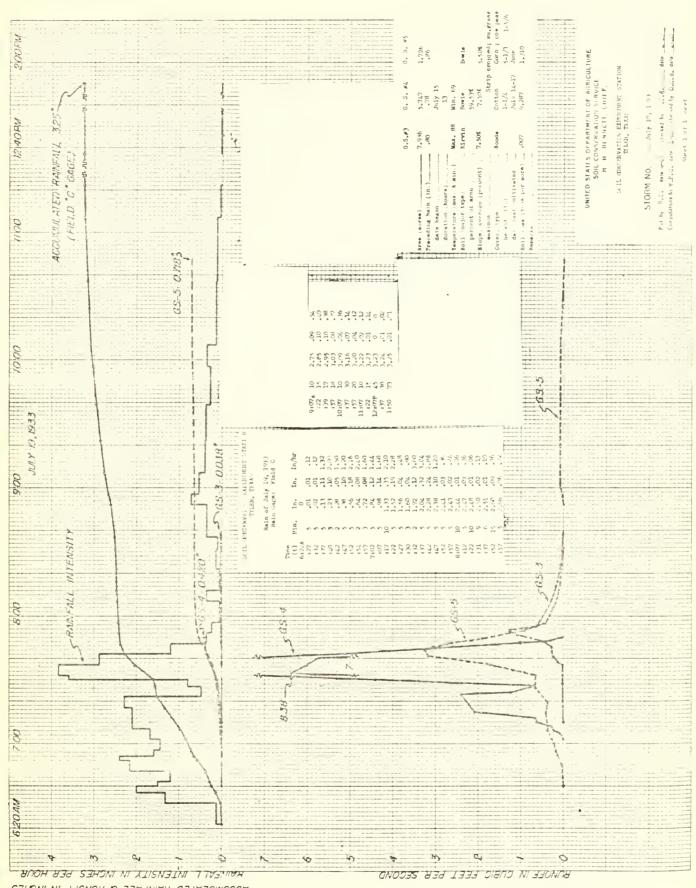


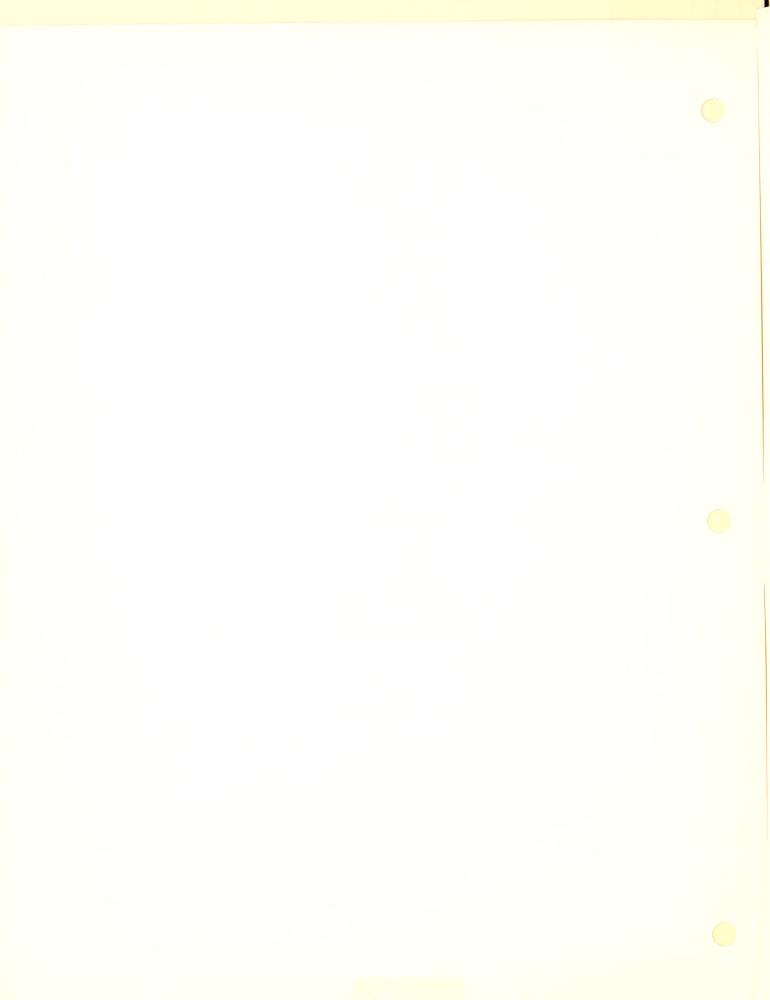


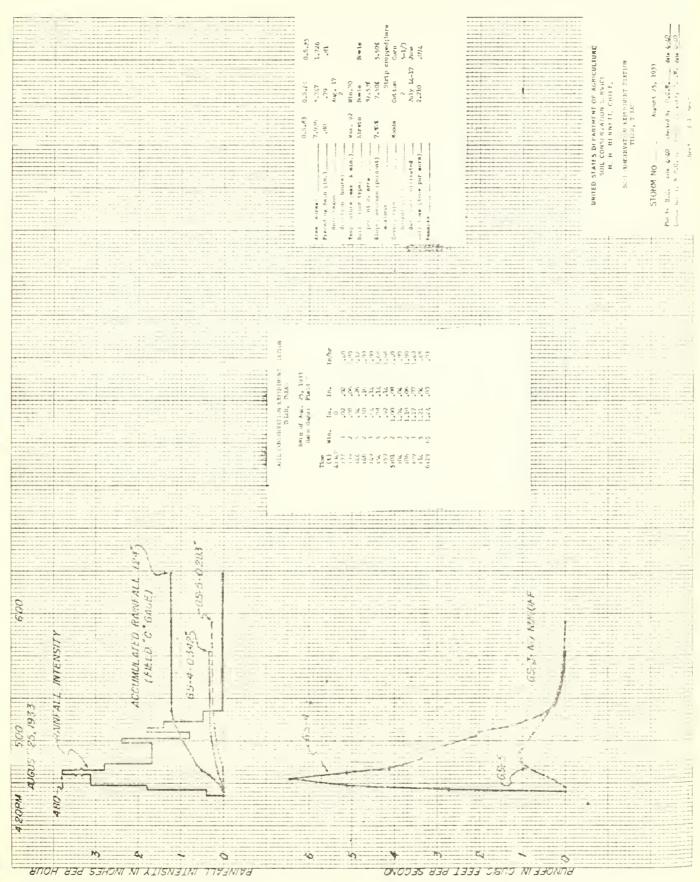


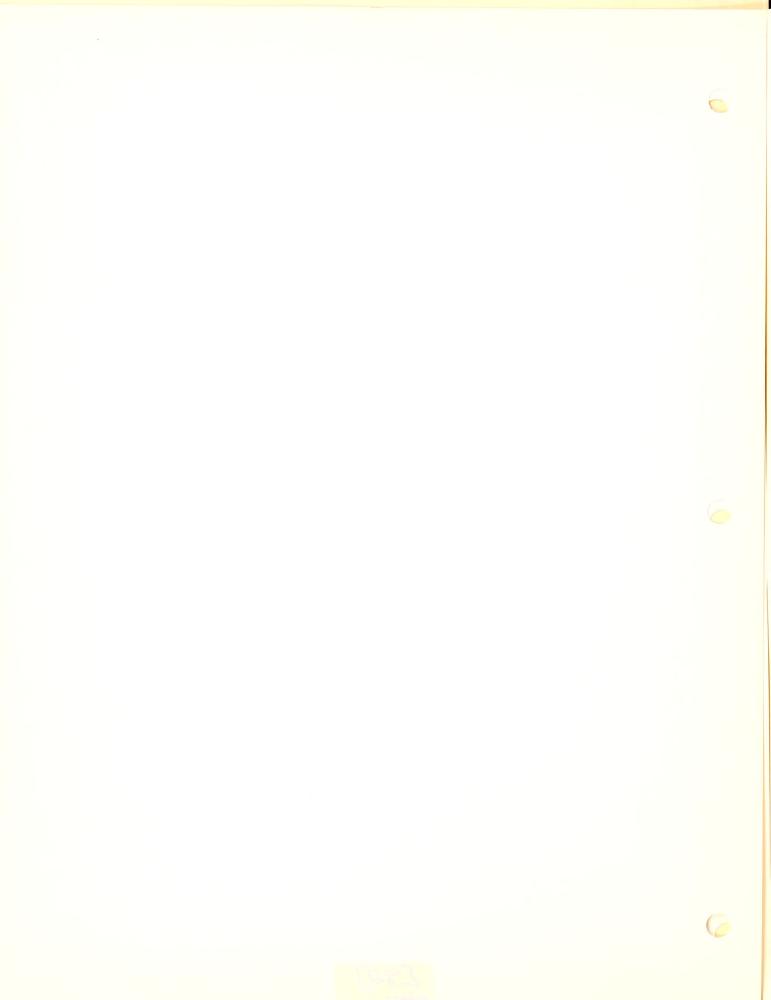


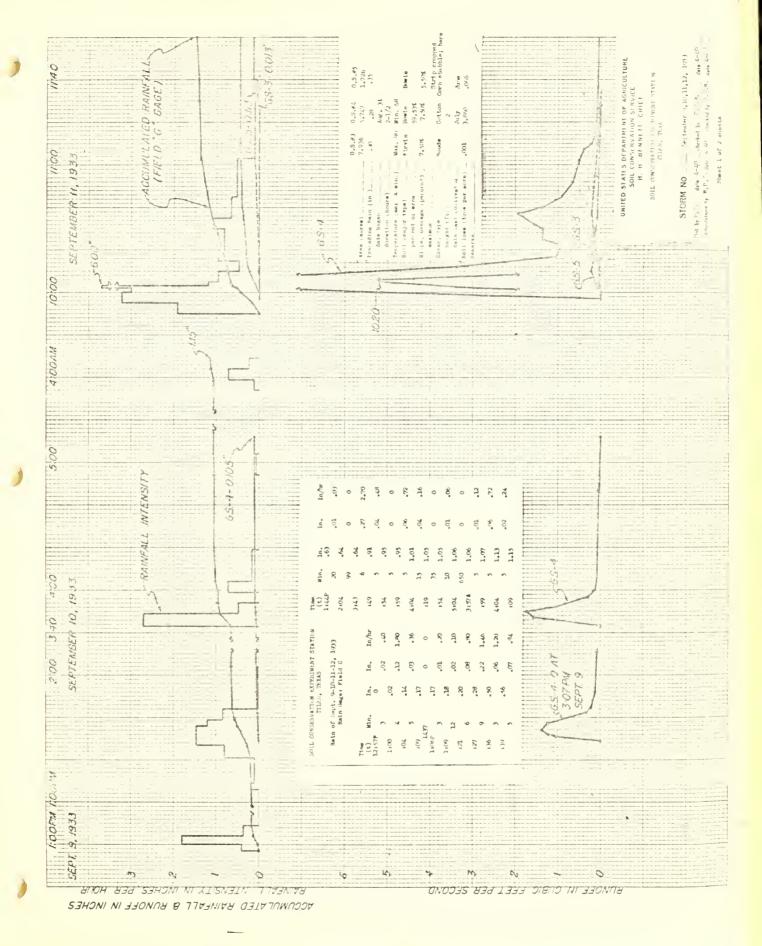


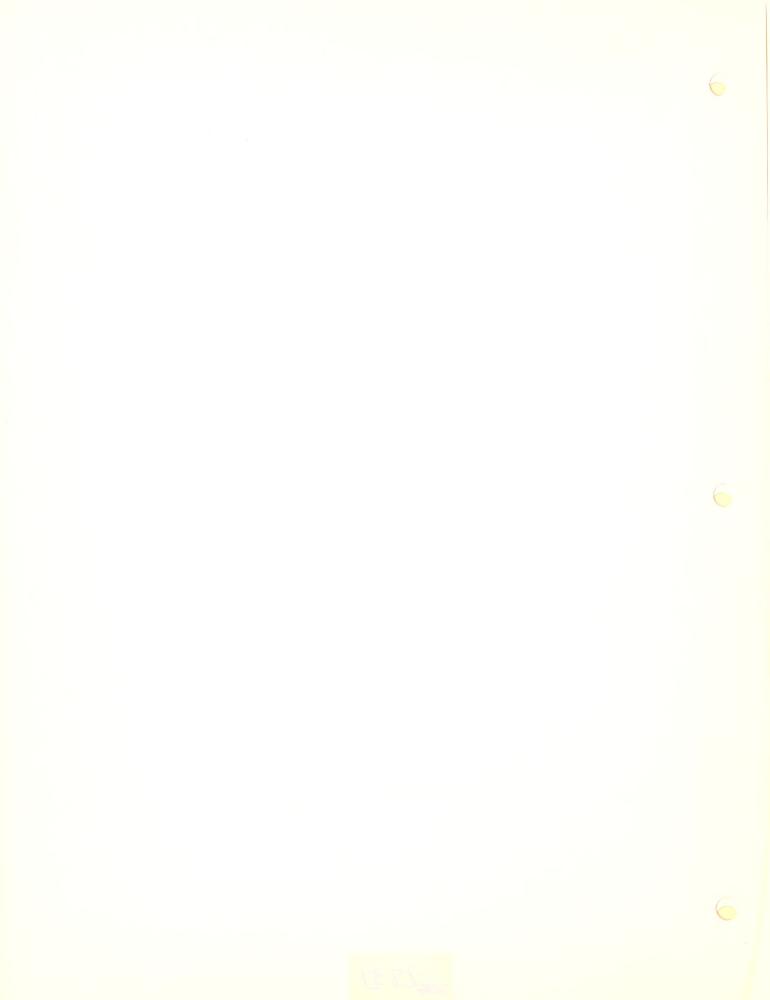


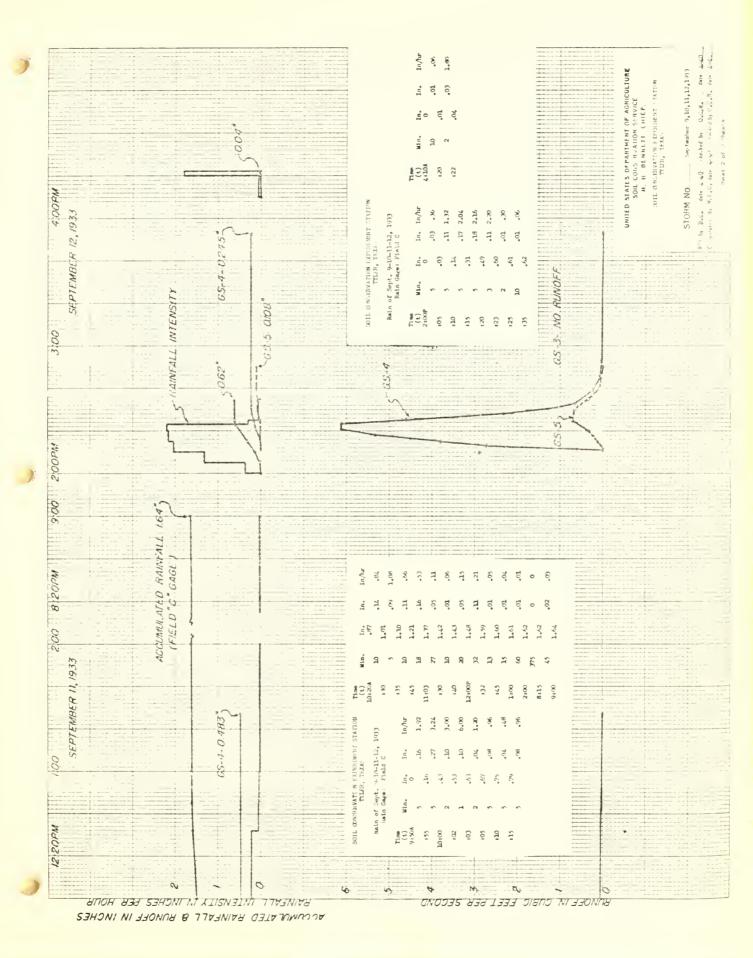


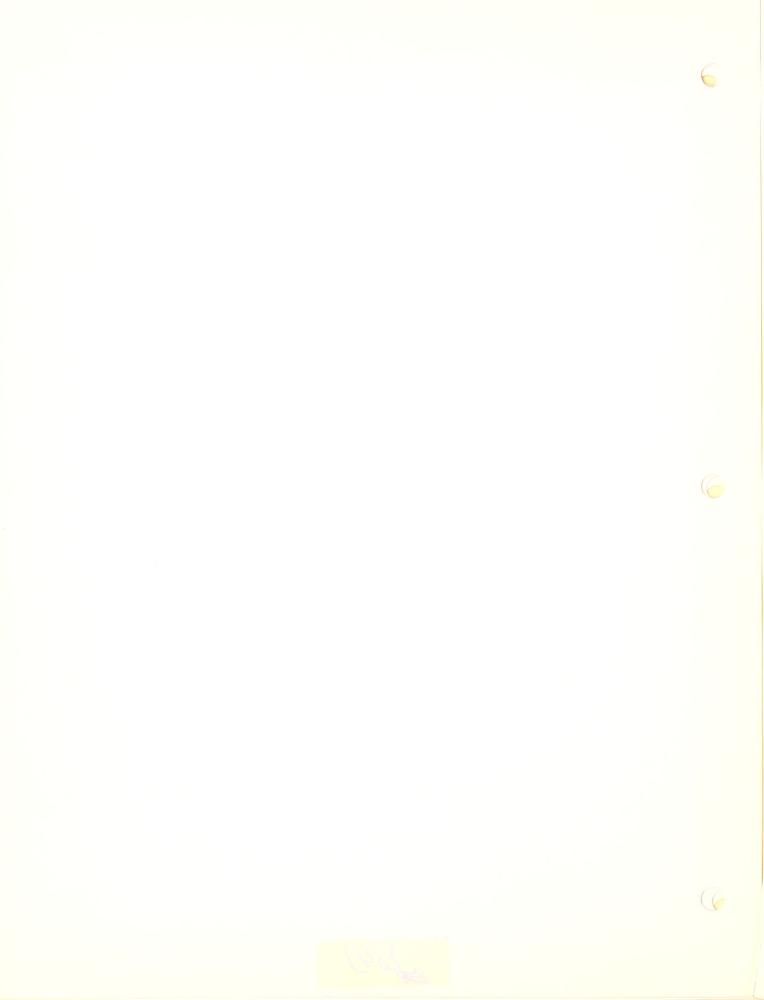


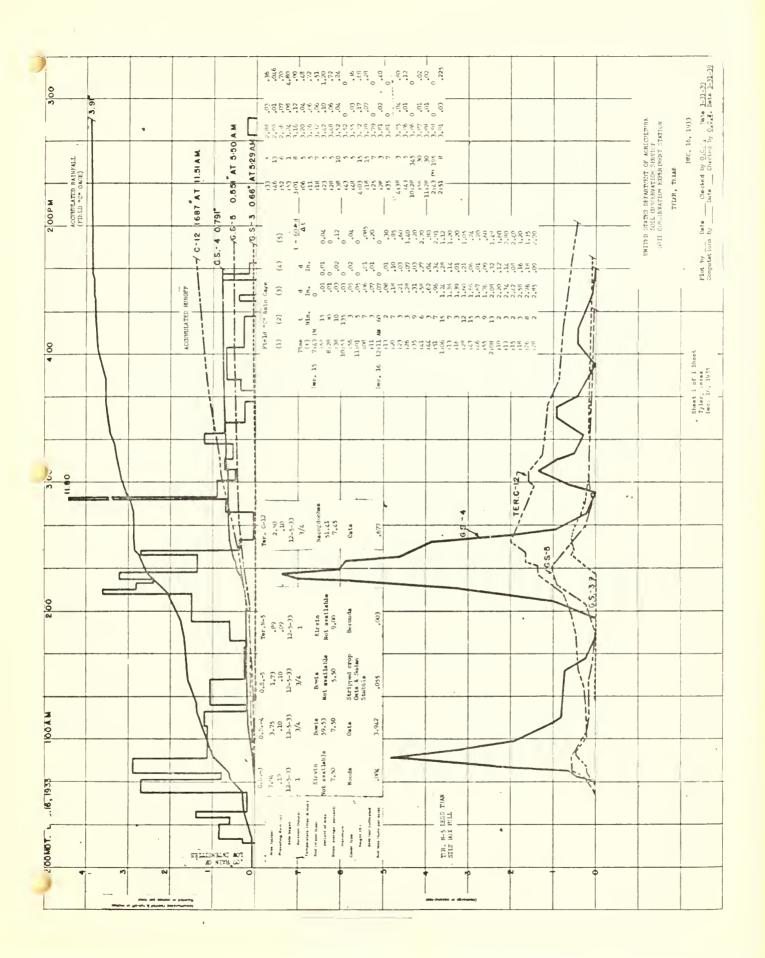


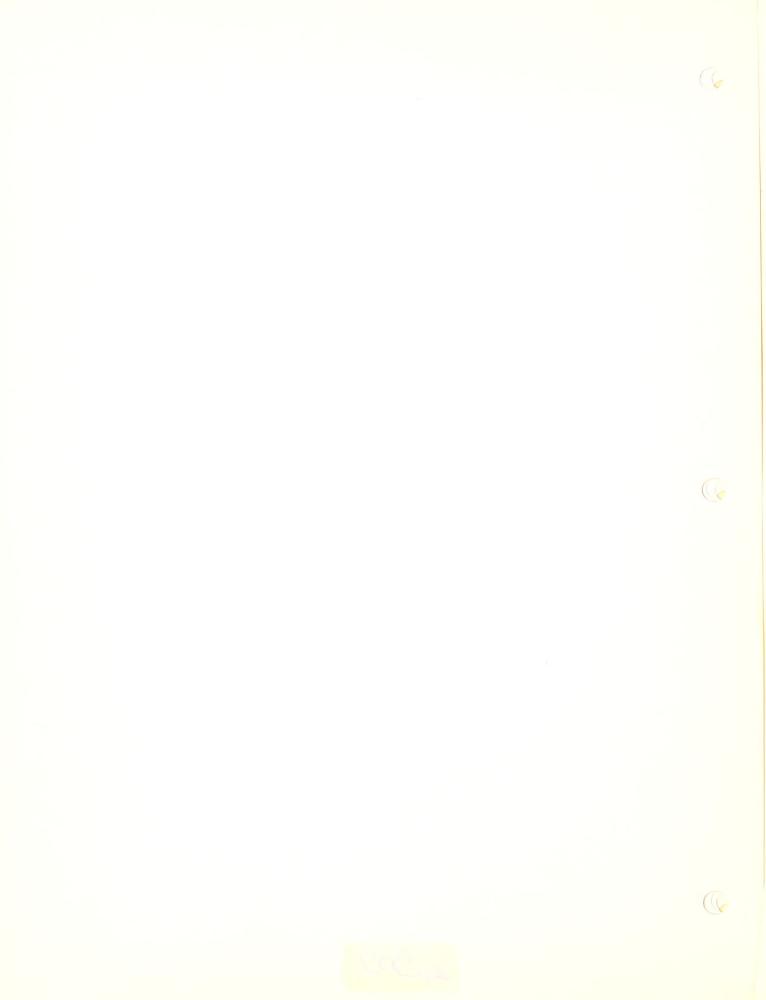


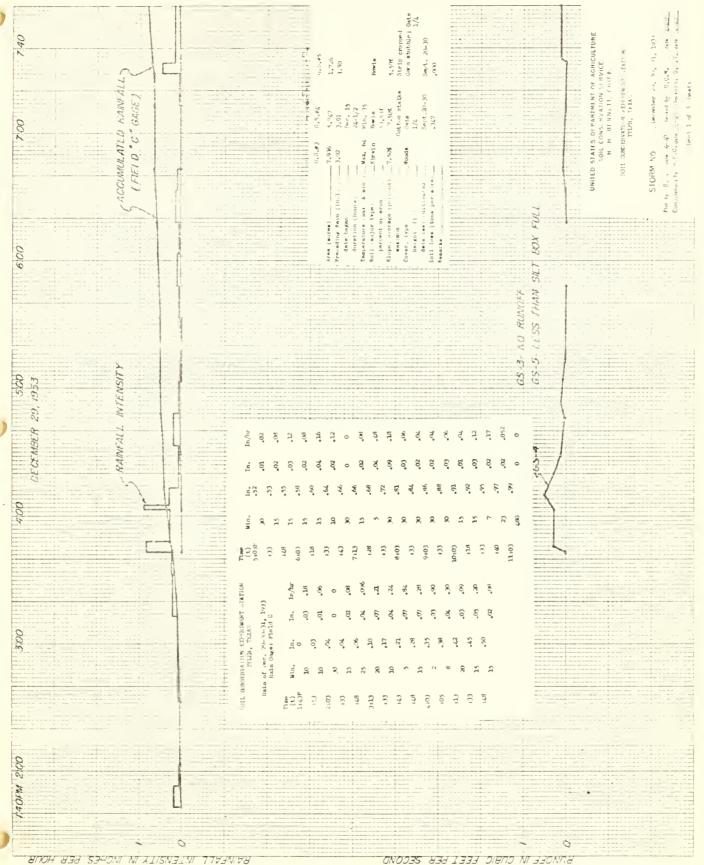


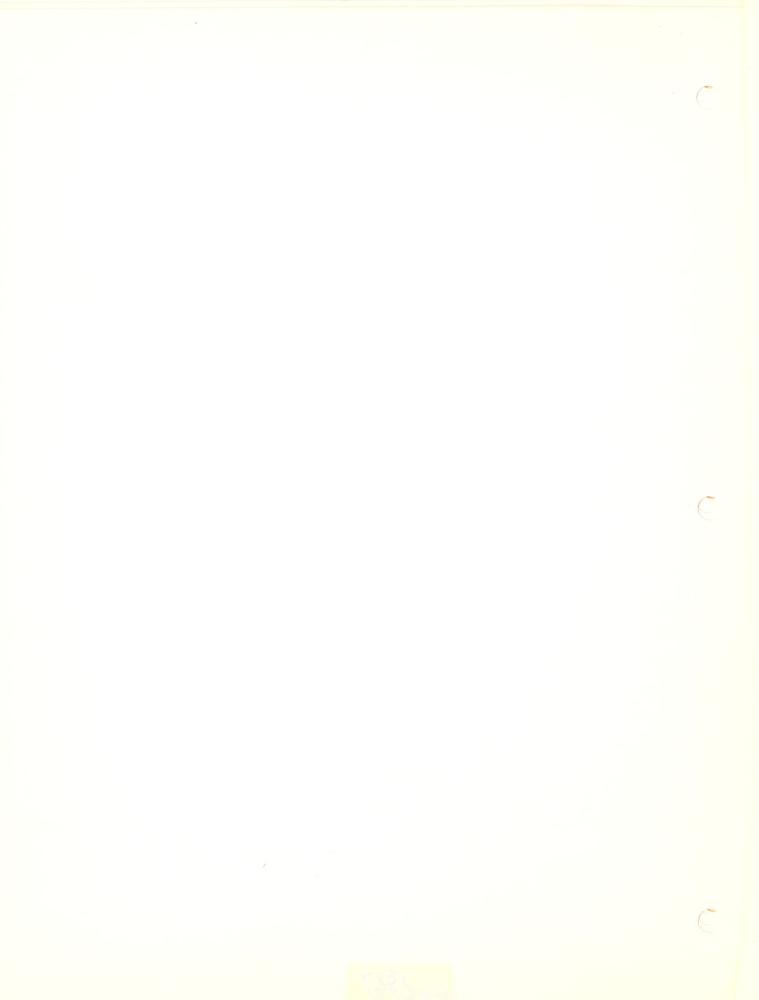


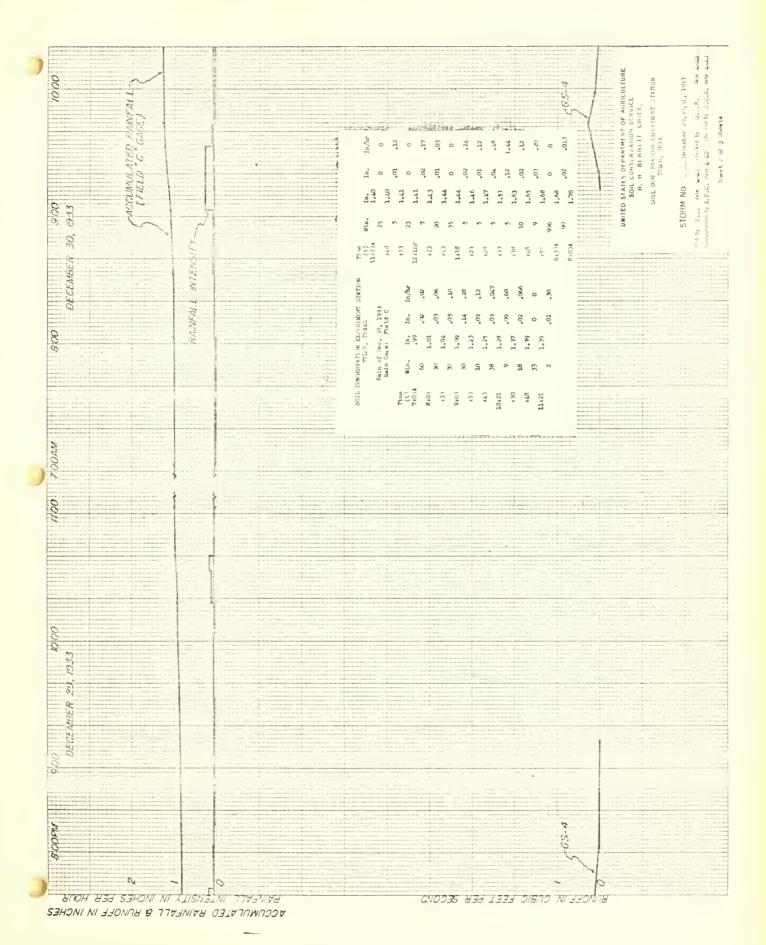


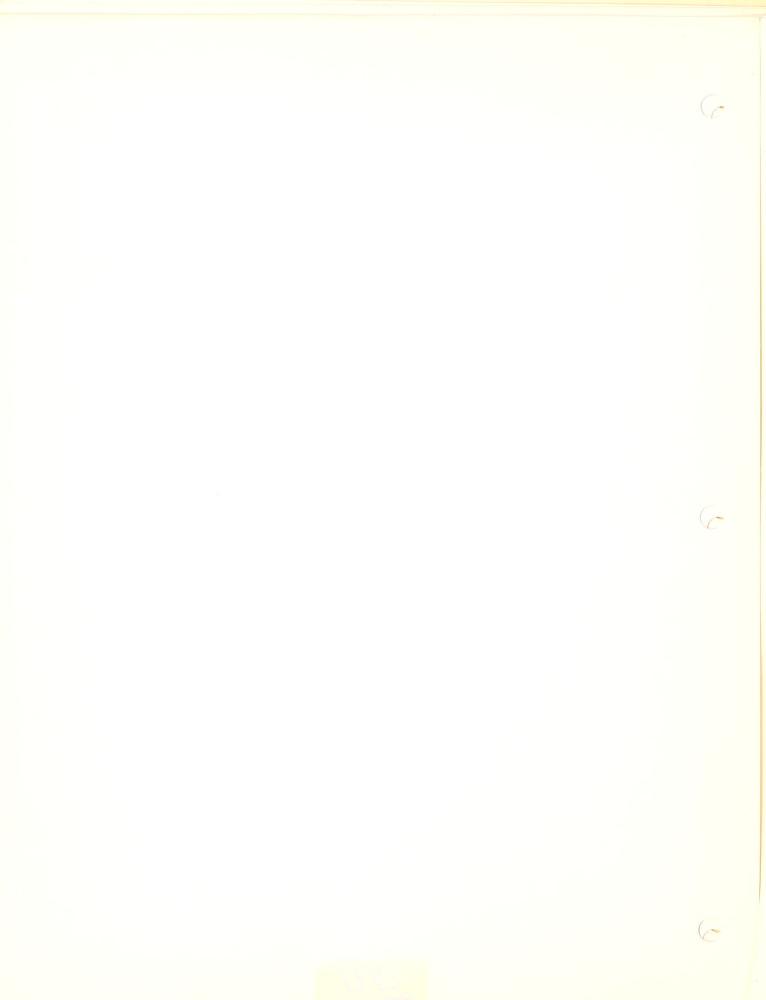


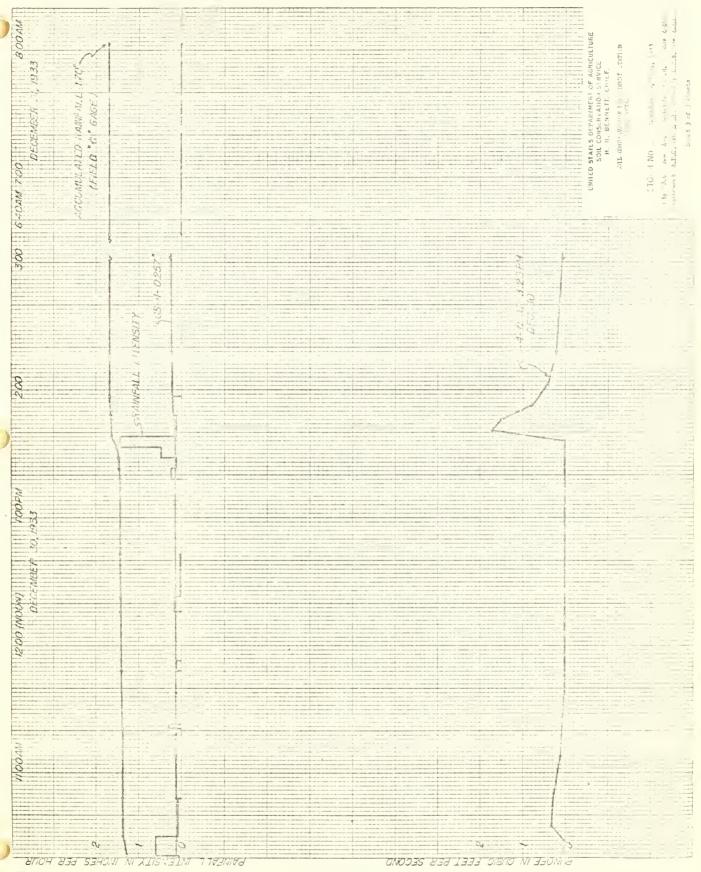


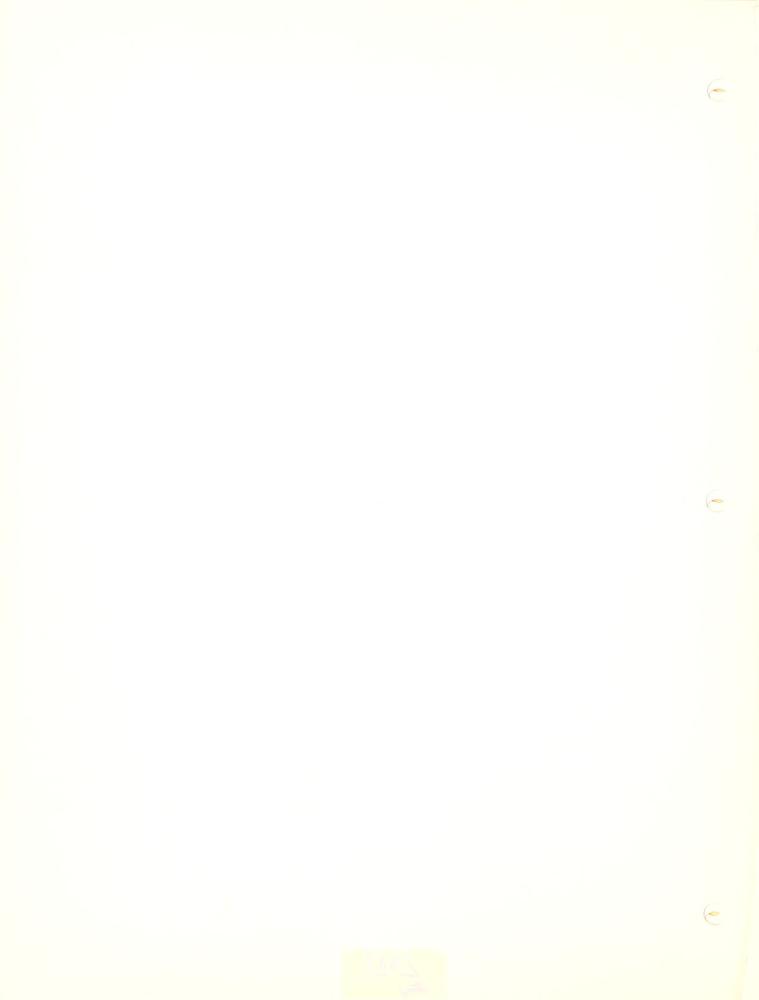














PARTIE S. C. S.-B48

PROJECT SCS Experiment Station, Tyler, Teras

1934

ε

DAYR

Jan. 3

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF WESTANCH

y.

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

AJIKMTB 10.34

ø

O.

-

SHEET

Mourn Jan A Poba

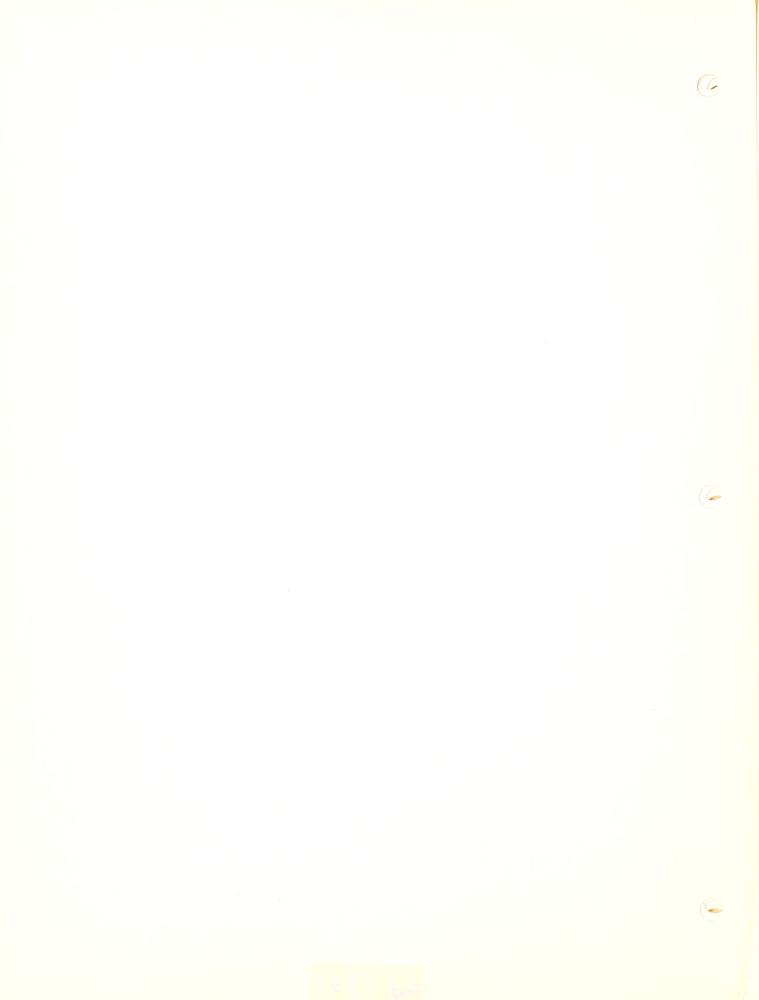
Focus (oak); dormant Oats. 3 goods cotton stalks... Oats: corn stubble & bermuds... Toods (oak); dormant.
Outs, 3" high in cotton ntalks.
Strip cropped; outs &U., corm.
Stubble 60,; bermuda krass in Woods (oak); dormunt Outs; 6" good; cotton stalks Outs; corn stubble & bermuds Woods (ouk); dormant Outs, 3" good; cotton stalks Outs; corn stubble & berrada Woode (oak); dormant Cats; good; cotton stalke Cats; corn stubble & bermida Woods (oak); dormant Oats, 3" good; cutton stelks Oats; corn stubble & bernuda Moode (oak); dormant Outs, 3" good; cotton stalka Outs; corn stubble & bermuda Woods (ouk); dormunt Outs; Lood; cotton stalks Outs; corn stubble & bermuda Woods (oak); dormant Qmts, 4" good; cotton stalks Oats; corn stubble & bernads CONDITION OF WATERALED Wealthon Store from (bone per norm) 316 .426 191 Harreatt Miscos Hustose 1.498 1.217 1.087 .312 33 .933 BALLOAM 3.16AM 2.55AM 4 1 2 A N (18) Thme Manness Rave rate Ou ft. 880 No . 93 1.05 (3.8) 43 RUB-OFF Amount (Inches) 183 .088 .093 .057 (14) 7146AMIO12.9M 2.26 PM BA45AM 8145.V 5135.10 Rotal (boor) = 3159AW E 2.41AW 2.28AW N BO Began (hour) (2.5) NRO 38-29 38-29 38-29 36-43 43-36 43-36 Trupasatina (duginas F) 444 35 35 47 記る記 444 223 22-42 52-42 52-42 09-09 7-54 222 9 9 9 57 57 888 444 67 (Inches Ive beat) (Inches per bour) (10) 90 370 1.20 38 90-.18 .32 7 BOB Masneys irraders 3 44 .12 09. \*O8 -20 97" 1.44 1.44 BO. (Inches yer bear) (H) 12 1.20 2.76 .72 .12 ,12 1.68 .24 ₽24 RAINEALL Amount (Inches) 1 238 40 .40 251 31. 70. 1.42 .32 1.08 .52 Duration (missem) 705 210 2560 693 975 675 25 810 87 ê 1114773 1117AH 12 147PM 4107AM 3 . 08AM 415241 1,2244 3,2041 2 1 30AU Regan (bour) Ē 2-1 -Fb 1-E-G 3-E-A Or go N t nd ed ed  $\alpha - \alpha$ 240 nz H m 02 -4 m તા ન લ 2 4 4 7-936 5-747 7.935 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 1,936 A year WATERARITO Number er. m 4 € € ल स ज m. of sa 12 4 W es de res Jan.11-12 Jan. 7-8 Feb.7-6-Feb. 18

Jen. 18

Jana 31

Fob. 11

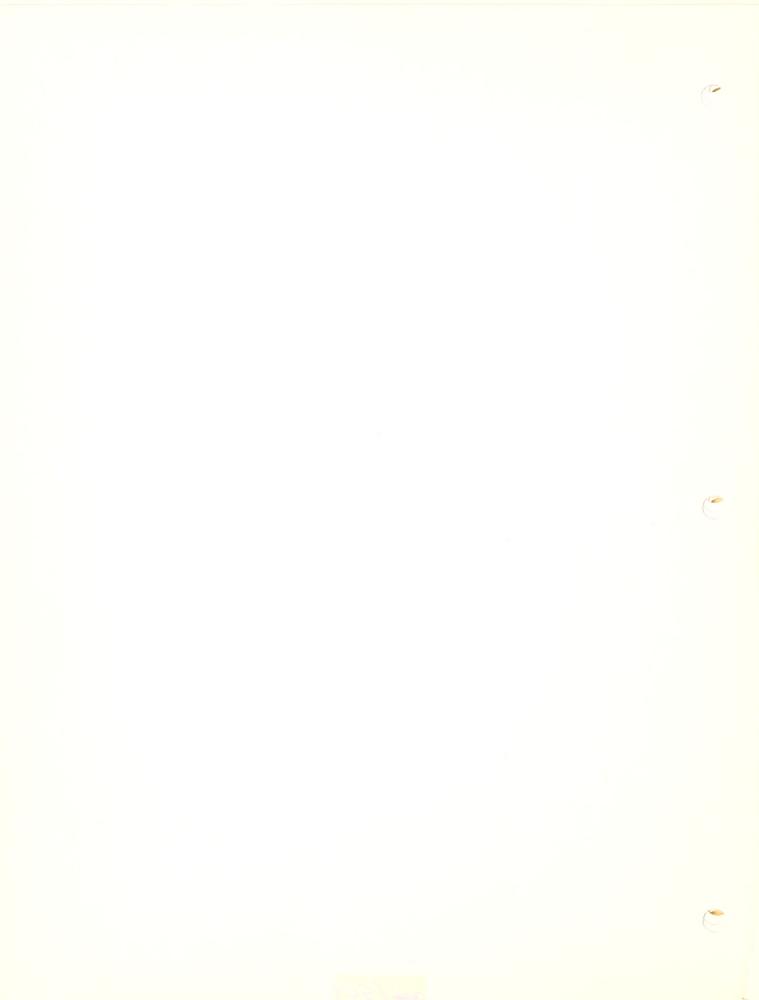
Feb. 25



# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Month Fab. Mar. & Apr., 19 34

	Wat	Waterosto				RAIMPALL	4			TREPRESTURE (dograms F)	narthan w F )		~	NUM-OFF					With the second
Dave 1 934	Number	A rea (actros)	O Mrs No.	Rema (hour)	Duration (minutes)	Amount (Inchas)	5 mindes (Inches per hear)	LAKERUM BETERMETT  16 minutes (Incline pur hour) ()	AKE SUM DETENDET  10 minutes  (Inclose per lour) (disclose per lour)	Maximum Minimum	Minhaum	Bogan (Lings)	Forded Design	(Inches)	MAXIMUM RAYE Cu ft and Tho		Rainware Mineum function (Inches)	fitte Loss (tons par sore)	COMUTTOR OF WATERAURD
É	(8)	187	3	(\$)	(8)	(2)	3	€.	(10)	==		1120	a e	(14)	(16)	(10)	(11)	(18)	(61)
Feb. 28 Mar. 1-2	man	7.936 5.747 1.726	2-F-Eb 1-F-C 3-E-A	912241	2881	3.23	1,20	22.	.52	40-53 40-53 40-53	32-48 32-48 32-48	1/1110P 1/10423A 1/10406A	10,00A 12,1000n	.547 .956 2.179	1/2.48	3,15P 1,41P 1,49P	2.683 2.344 1.051	6.580	Woods (ouks) dormint decently plosed (late Feb.) Strip cropped;oats 40%;orn stubble 60%;bermuda in washes
Ker. 3-4	440	7-936 5-747 1-726	анп	10131PM	555	-59 -48 -49	-98*	48	38	59-69 59-69	40-48 40-48 40-48	11:10P	3/12:59PM 11:10P 2:55AU 11:15P 3:15AU	.219 .090 .178	2/ .10	12,594 11,2512 11,3552	.371	.008	Mode (ouke) dormant Plowed late in Seb.;bure Outs;corn stubble; bermida
Mar. 18.	m * 12	7.936 5.747 1.726	≈ -	6138AM	20	12 11 11 118.	24	.16	12	76 76 76	28 28 28	NRO NRO NRO				· · · · · · · · · · · · · · · · · · ·			Woods; beginning to bud Plowed lute in Feb.;burs Oats; corn stubble; bermuda
Mac+24-25	es es es	7.936 5.747 1.726	on m	101544	2230	4.43 3.89	1.92	1.32	1,12	75-41	40-37 40-37 40-37	10,3245/ B12344/ B1354	3132P 11153A 11145P	.683 1.358 1.443	13.93	-77 11 158Ak -93 11126AX -57 11.46AN	3.747	.022 19.761	Moois (oaks) budding Disked for planting; bars Oats 9",corn stubble; bermuda
April 5	m 4 s	7.936 5.747 1.726	ଷାଧାଳ	12 155AM	430	3.33	1.92	1,36	1,26	81-78 81-78 81-78	69-58 69-58 83-69	2.07A 1.04A 1.08A	10,584	2.119	.92 6.44 1.37	21594W 21254W 2138AW	2.769 .791 1.356	***	Woods (ouke) putting on leaves Daked recently; bare Outs 9";corn stubble; bermuda
April 5-6	6 4 2	7.936 5.747 1.726	alla	815581	565	1.28 1.06	1,26	1,00	*84	78 78 78	58 88.	8157P		1108P .936 10145P 1.020 3157A 1.025	1.15 5.88	10:03PW 9:00PW 9:32PW	.344 .040	22.223	Oake putting on leaves S Disksd recently; bare Oats S"; corn stubble; hermida
Apr&1. 6=7	w 4 1	7.936 5.747 1.726	7. Pr. d.	1013087	270	600	.12	80°	80	75 75 75	57 57 52	NRO NRO NRO							Dake in leaf Nisked recently, bare Oats 9°, corn stubble; bermada
April 16	640	7.936 5.747 1.726	ане	1.38A1	162	. 17	1.32	1.20	.7B	77	5.8 5.8 5.8	NRO 5111 P 3111 P	рох	.012	No	rate.	.678	.002	Oaks about full follage Re-disked for planting Outs 10"; corn stubble; bermuda
April 18	m -1 a	40 co co	0 .40	7 11 12	Q7	<b>5</b> , 5;	.12	2	93)	18 2 18	0000	NRD N.O NI.O				1			Woods (oaks) Oer mently plunted (broj oarn stubble; berala



Fuera S. C. S.-848

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

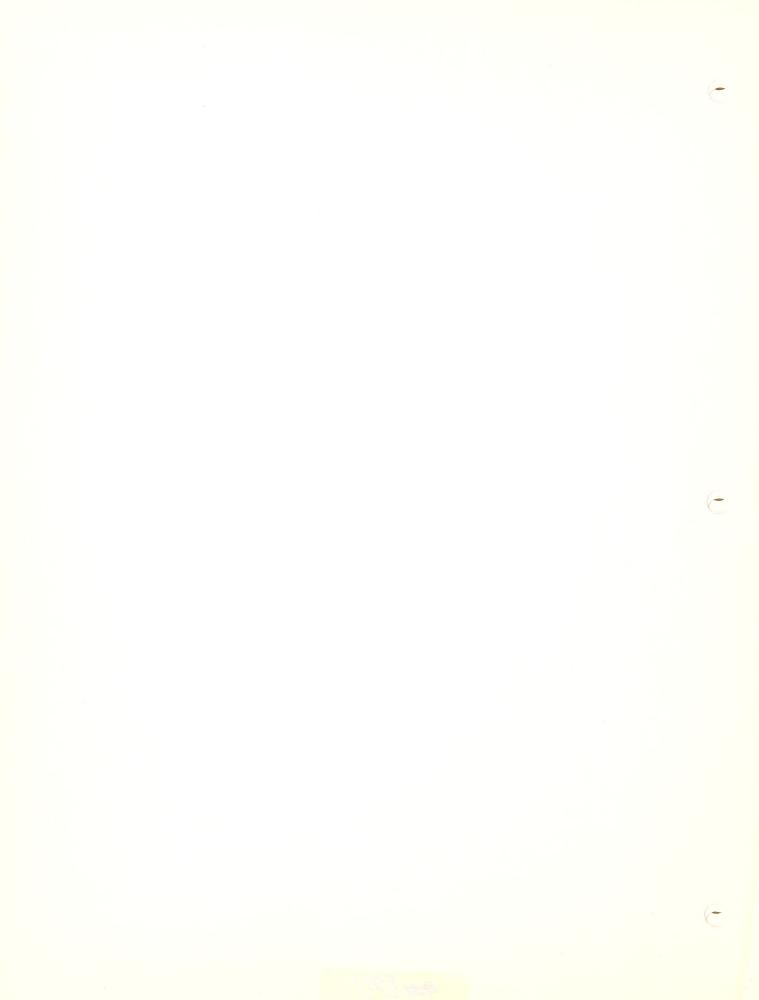
19 34

MONTH Apr. May & June

Woods (ouks)

Corn 2", poor stand

11" outs; corn stubble; bermuda Cotton a sorghum strips plusted Strip cropped; outs 40%; corn-etubble 50%; bermuda grass in-washes. Woods Corn 4" poor; cultivated Cats 1' \$ corn etubble, bermuda. RHEETB Corn poor stand Outs; corn stubble; bermids. Corn poor stund Outs, corn stubble; bermuda Corn thinned, cultivated. Plowed and dieked (May Sth; Cotton just up; worghum Cotton; not up; sarghum Corn, poor stand Cotton; sorghum strips Совыттон ов Wатвылива Corn recently planted Corn, cultivated 40 Toods (onks) • Corn 30" Moods Woods Moods Moods Woods \*cods SHEET .07B .047 (form per exre) 6.271 (3.8) RAINPALL MINUS
RUS-ors
(Inches) 0.961 0.524 0.858 (1.7) 8 126FM 3 106PW Time (91) MAXIMUM RATE rate rute Ou, ft. sec. 9467 No SN SN (18) .239 .182 910\* Конок •002 91 ARD SECTION SE POX Encted (boort) boy. 5111 SA11 Bogan (bour) NRO NRO NRO (21) NRO S S S 85-73 60-59 85-73 60-59 85-73 60-59 88-83 65-67 88-83 65-67 88-83 65-67 Templose F) 61 61 999 55 65 19 64 64 83 83 83 333 88 88 88 35 35 85 85 85 B B B 86 86 86 (finding per bonz) (Inches per bonz) ê 1.18 42 1.06 1.02 12 .04 A18 09 900 MAXISTON INTERNETT ţ 2.00 ŝ ,16 .04 .36 .72 90 090 1.76 1.36 8 minutes (inches per bour) 5,16 Ê 1.20 96\* 2.16 1.68 24 .72 .12 Combined with succeeding rule RAIMBALL Amount (Inches) 1.01 6 222 1.29 0.00 55 20 -17 30 34 53 • 0° Puration (refeates) 1075 1255 9 170 150 145 275 83 25 9 PROPECT SCS Experiment Station, Tyler, Taxes 2155AM 2155PM 5×10AM 7 A 40PW 11105AM 1140911 12:14:1 11.09AU 2 . 20AN Began (bour) 9 2-F-Fb 1-F-C 3-F-A Gages No. 21 10 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 A rea Ĉ ê w 4 2 m **4** € 440 G 4 N m 4 s a de ra 6 4 W April 24-May 23-24 April 19 April 24 April 27 1934 Dare June 11 June 12 May 24 May 4



Form 8. C. 8.-848

PROJECT SGS Experiment Station, Tyler, Texas

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH AME, July Aug. & Sept, 19 34.

SHEET

SHEETS Corn, 5'-6', poor etend Strip cropped; cotton 1"-2" Cultivated in June; Sorghum Corn, 5.-6. Cotton 6"-14" cultivated in July; Sorghum Woods Corn, 5'-6' Cotton 24"-30"; Sorghum Woods Corn, 5'-6' Cotton 10"-24", Sorghum Woods Corn, 5'-6' Cotton 24"-30"; Sorghum Woods Corn, 5'-6' Cotton 18"-24"; Sorghum Woods Corn, 5'-6' Cotton 20"-28"; Sarghum Corn, 5'-6' Cotton, 24"-30", Sorghum Corn 5"-6" Cotton 10"-24", Sorghum DOSDITION OF WATSAMES OF (0.0) Woods Moods (box per nore) .043 RAIMPALE MINUS
RUS-OFF
(Inches) a 4.48 (17) Tlm (16) MAXIMUM RATE rate On ft sec. (8.8) No RUN-MP Amount (luches) .031 (14) DOX Silt Heran (bour) NRO NED NED NRO NRO NRO (13) 75 200 73 099 76 76 72 67 TRAFFILLTURE (dograms F.) 6 64 82 82 103 E 6 6 9 9 9 16 98 98 98 102 200 (Inches per hour) (inches per hour) .12 \*26 1.38 (10) 114 .20 96 .50 .26 7 MABIN'S INTERNATE .28 .40 1.64 .44 ŝ .24 1.52 .56 .52 .24 (Inches per hour) 3.60 .48 Ê 1.32 2.52 96 .72 09 .48 .72 RATHFALL 9000 26 13 90 17 5 8 6 0.08 5 22 8 8 8 Paration (minutes) ê 12 ø 2 30 52 36 56 288 227 a 3 E TV 77 5:38 FM 줎 置 5134 PM Hogan (hour) 7450 6120 2100 3158 1145 4,18 7137 9 2-7-Fb 1-F-C 3-F-A Owen No. NHE 04 H M લનાલ NAM 24 4 44 M-IM 244 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 7.936. 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 ATA MTM  $\widehat{z}$ WATERBEED m + m 940 m 4 m m 4 m m ≠ m M 4 W 4 4 2 40 4 4 4 July 24 Sept. 3 Sept.14 June 30 Aug. 14 July 22 Aug.28 July 2 Aug. 9 1934 DATA Ē



Ports R. C. S.-348

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

DIVISION OF RESEARCH

3DS Suret 5 OF 6 NUTE SURETS

	WAY	W A TURBANGO				Mainwata	7			Tampanarusa (degrees F)	a Tuna a F )			No se care					
	Number	4 <u>9</u>	Ohgo Na.	Began (boar)	Purathm (minute)	A montal	6 cultactee	MAXIA'US levanery	W ustavites	Mealmum Minhsum	M fatigura	(hour)	(Frodad)	A smessed (Linetheat)	Manue		Rainpark Minter Rependent (Turben)	(tone per sore)	Оониток от Wateraner
1934	i		1				(Inches per hour)	(incline per livits) (incline per livits) (intline per livits)	(hitches per liour)						Cu n mer.	These	-		
	9 ~	7.936	S-F-Wh	(0)	(a)		(9)	6	(30)			(21)	(13)	î.	(18)	(32)	(12)	(18)	(01)
Sept. 21	) संध	5-747	2 - 4 - 5 - 5 - 5 - 5 - 7 - 6	Z+00AM	280	215	36	25	-24	36 98 98 98 98 98	63	NRO NRO NRO							woods (Oak) Corn 5-6" poor stund Strip croppedicetton 24"-30"; Sorghum
Sept. 28	m ≠ v	7.936 5.747 1.726	ачы	2,471%	23	222	1.68	200	95*	4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	73	NRO NRO NRO							#oods (oak) Corn 5'-6" Cotton 24"-30"; Sorghum
Sept. 29	m ≪ na	7.936 5.747 1.726	લનાવ	#15018	83	.03	09•	-32	91.	85 85 85	4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NRO NRO NRO		, ;					Foods (onk) Corn muture Cotton mature, hegin harvest, Sorghum
Oct. 14	m 🕶 vi	7.936 5.747 1.726	ଷ୍ୟଳ	714557	163	.34	09*	*44	.26	83 83 83	63	NRO NRO NRD				11 18			Woods (ouk) Corn hurrested Cotton hurrested, Sorghum
Nov. 2	m = 4	7.936 5.747 1.726	× 40	MUDO'S	265	83. 82.	. 12	25.	. 40	999	9 9 9 9	NRO NRO NRO			11 1			· i	Woods (oak) losing foliage Qats drilled in corn stubble Strip cropped; oats & Sorgnum Stubble
Nov a 14	ଅକ୍ର	7.936 5.747 1.726	анп	2,100	70	010	-72	•36	118	77 77	5.8 5.8 5.8	NRO NRO NRO				,			Woods (oak) losing foliage Oats, fair stand & corn stubble Oats, Sorghum stubble
Kov.1849	en en ru	7.936 5.747 1.726	мни	2145JW	795	.04	.12	80°	<b>9</b> 0	79-74 79-74 79-74	66-65	NEO NEO NEO			188		18		Moode dormant Oats, & corn stubble Oats, Sorgium stubble
Nov. 19	ଜ୍ନ	7.936 5.747 1.726	ભનળ	11.32,42	620	1.97	2.76	2.24	1.86	74	65 7 655	NRO 7418FM 1	12 fullan box	.162	1.30 No	Ta40IM	1.818	.000	Moods dormant Outs, fuir & Corn stubble Outs, Sorgum stubble
Nov. 20-21	ल चाधा	7.936 5.747 1.726	લનજ	4.23.72	1037	1.70	1.44	89	7/9"	77-67	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	MEDOLE SLEET BOX	24.50.224 20.024 20.024	.141	#D #D	Bacliff	1.582	250	Wools darment Outs, fair stand & corn stubble Cuts, Corgium stubble



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

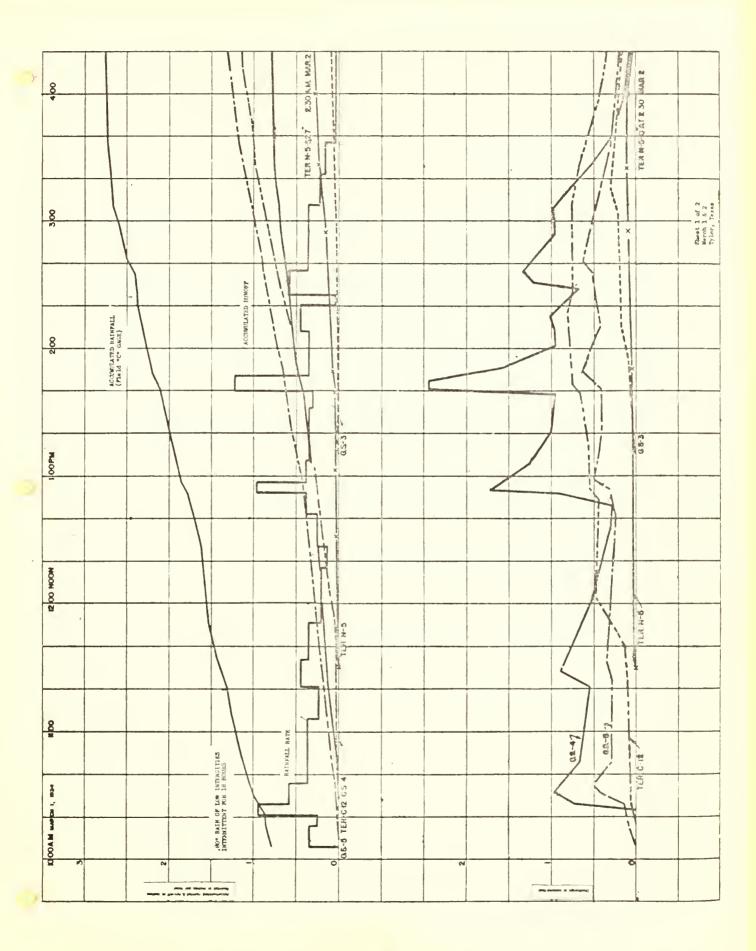
, 19\_34

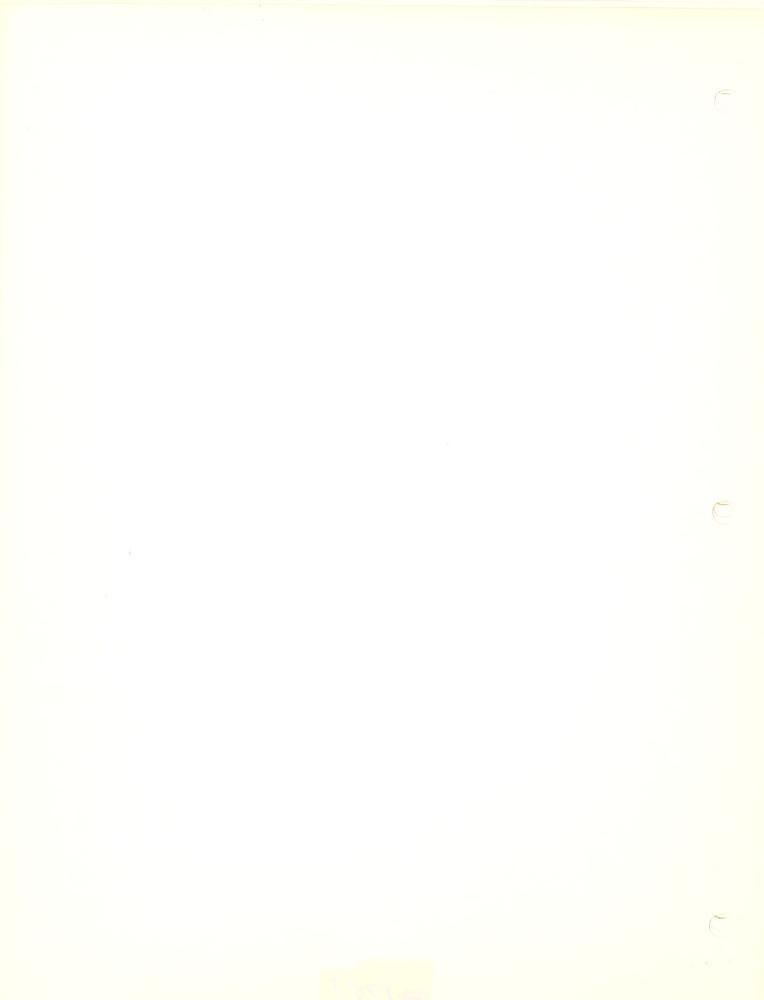
MONTH NOV. & DOO.

Outs 2", fuir stund, corn Stubble, Outs 2" & Sorghum Stubb Outs, fuir stand a corn stubble Outs fair stand 2"-4" & Sorghum atubble. Outs 3", fair stand, corn Stubble, Oats, fair stand 1"-3" & Sorghum Stubble Woods dormant Oats, fair stand a corn stubble Oats á Sorghum stubble Outs, fair stand a corn stubble Outs & Sorghum stubble Oats, fuir stand a corn stubble Oats a Sorghum stubble Oats 2", fair stand, corn Stubble, Strip cropped Oats 2". & Sorghum Stubble Woods dormant Cuts fair stand & corn stubble Cats, fair stand & Sorghum Stubble BHELTS CONDITION OF WATERBEED 9 (3.9) 0. Woods dormant Woods dorment Woods dormant. Wooda dormunt Woods dormant Woode dormant 9 SHEET Str.r Loss (tons per sore) 122 2.829 3 RADITALL MINUS RUN-ONY (Inches) 1.188 1,061 (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 110851 10.09ak .41 10:09A (18) Thme MAXIMUM RAYS Cu ft sec 6.44 (18) .072 .549 .447 RUN-OFF Amount (Inches) (14) NRO 9.04AM 2.041 M Silt box 515614 Ended (bour) 3 NRD 2.50FM 2.50FM Hegan (bour) NRO NEO NEO NEO NRO NRO NRO TEMPERATURA (dagress F) 4 4 4 38 48 48 48 9 5 6 9 2 4 4 4 4 5 4 5 4 4 4 = darlmum 999 20 20 20 9 9 9 9999 72 72 72 222 533 533 (tambes per bour) (faches per bou 1.50 210 (10) 200 s 32 .38 .10 10 112 MAXIMUM INTERNATIVE 1.56 a28 112 116 ŝ .36 .52 190 112 a minutes inches per hour) 2.40 .24 99 36 112 .24 .84 .24 9 RADINALL 113 Amount (taches) 25.25 23 1.35 1.63 1.61 1.58 33.99 7.7.7 118 117 6 . Duration (minutes) 144 210 305 630 140 115 130 260 ê PROJECT SCS Kaperiment Station, Tyler, Taxes 2-F-Fb 1-F-C 3:07FW 3-F-A 12:20AM 12135FW 7.15AM MYOO'S 6122AM 477 PT 6 214551 Begnn (hour) (8) Ongs 110. લનન NHM 244 ત્ય ન્ લ ભાવા વ NIM (3) 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7.936 5.747 1.726 7-936 5-747 1-726 7-936 5-747 1-726 Arab (acres) WAYERSED Number ~ 4 5 w 4 a 44 4 लां क या Now 25 Dac 17 Dec. 25 Dec. 27 Dec . 31 Now 29 Dec. 31 Dac. 2 1934 DAYE 3

"See next rain





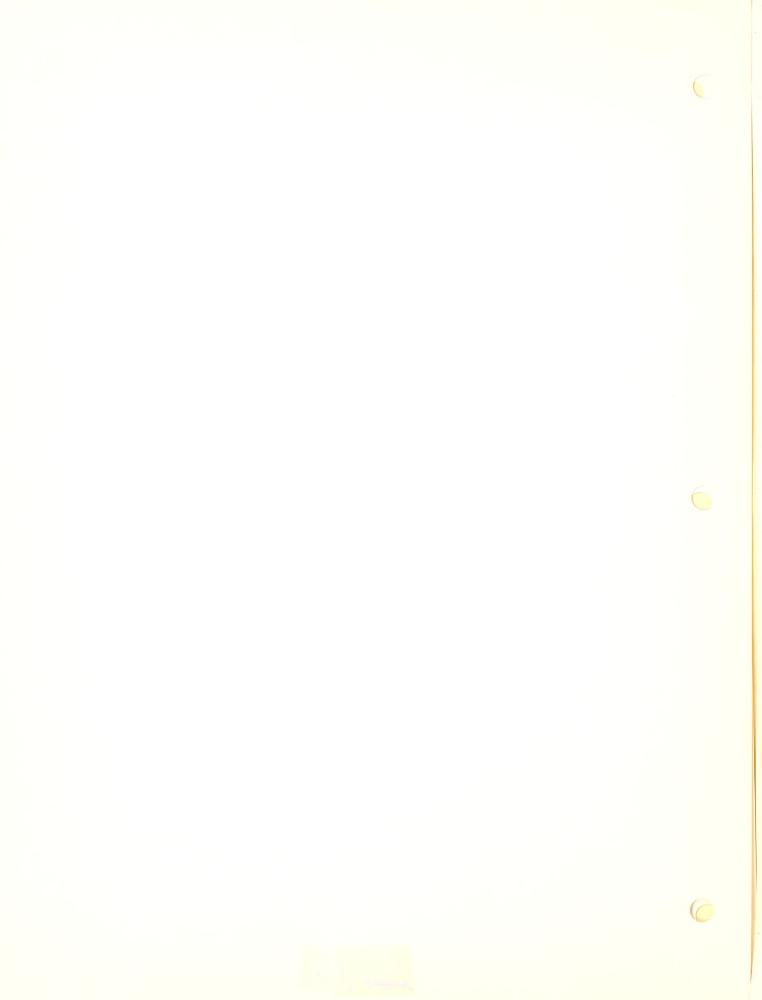


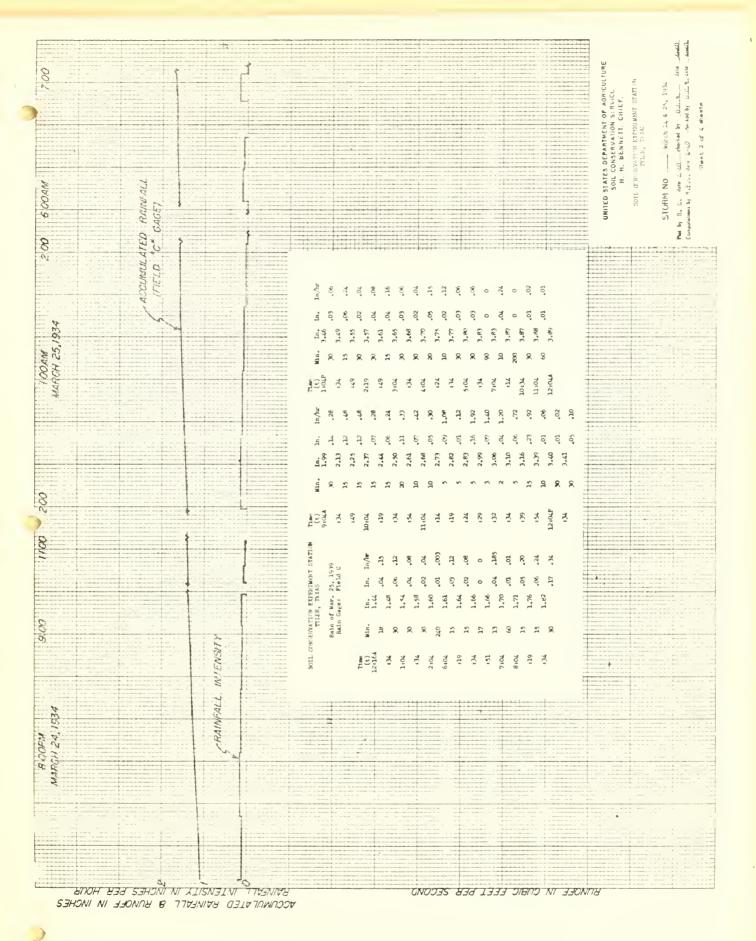


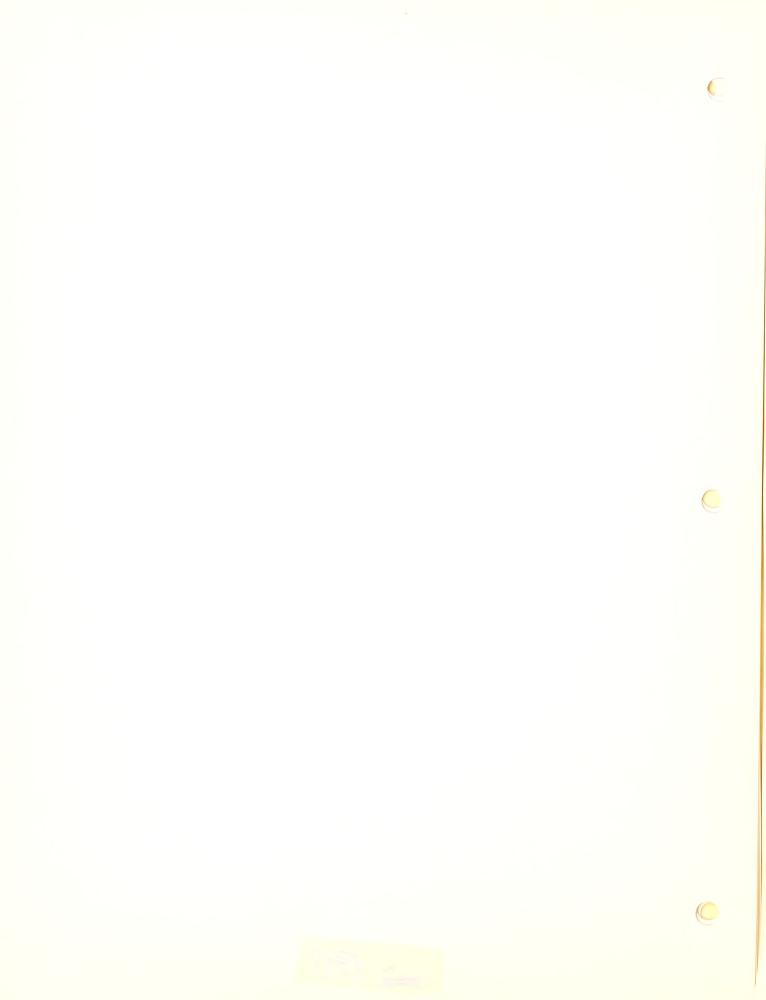
CL. ALEO RAWFILL GAV"	5. 5-0778 155.3-Cbs 41.2.539M	0.3.87 0.3.84 0.3.85 7,936 5.727 1.728 3.33 3.30 1.33 2.48 2.28 2.48 4,48 4,48 4,48 4,48 4,48 4,59.53 7,506 7,506 1,141 0.191944 out 8 80oda Fallow Corr chibba 1,008 1.493 .008 .003	65.3-0 AT (2.45.PM SKAPEN 5	UNITED STATS DEPARENT OF AGRICULTURE SOIL CONSTRUATION STATE H. H. BENNETT CHILF  (1) STORM NO STORM NO Polity days broad
		Transmitted  particularly life from  particularly life		
) Salary Colored Strains	in. In Aur	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°		RAILOV
4 N. WEALL WIEWSIT'Y	INVITOR EXTENSIONAL CIVILOR (1)		G.S. 4	N PREVIOUS
A B B B B B B B B B B B B B B B B B B B	ACCUMULATED RAINFALL  891	17.00 (1) (1) (1) (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		5

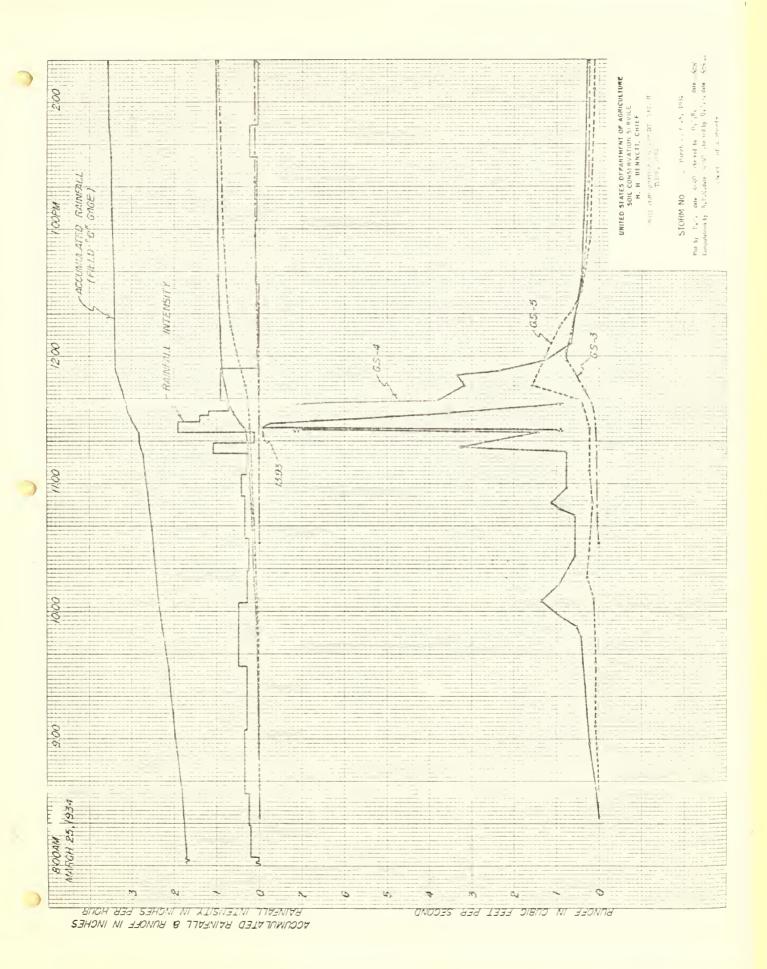


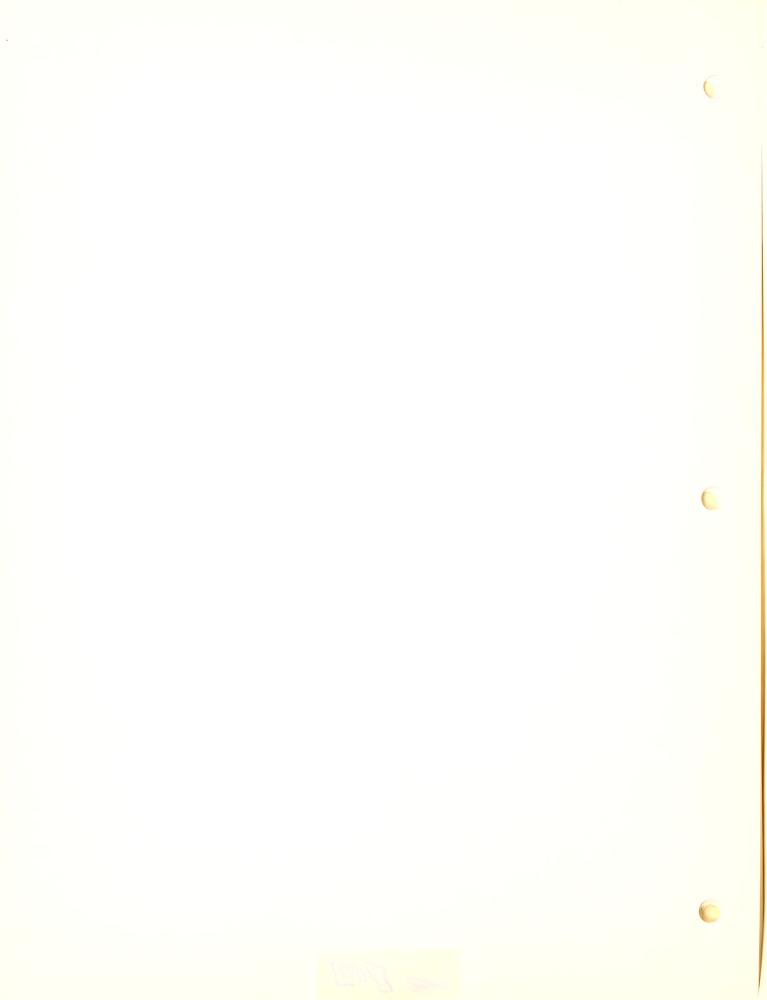
3:00 MARCH 24, 1034	FEELO "G" GAGE)	10   10   10   10   10   10   10   10
	TENSITY	Mun. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
934 1200	434W531.1. INT	201L CORNERVATION ETPHUNNT STATION Than THAN THAN THAN THAN THAN THAN THAN THAN
MATER HOUR	או אי	OND SEEL PER SECOND



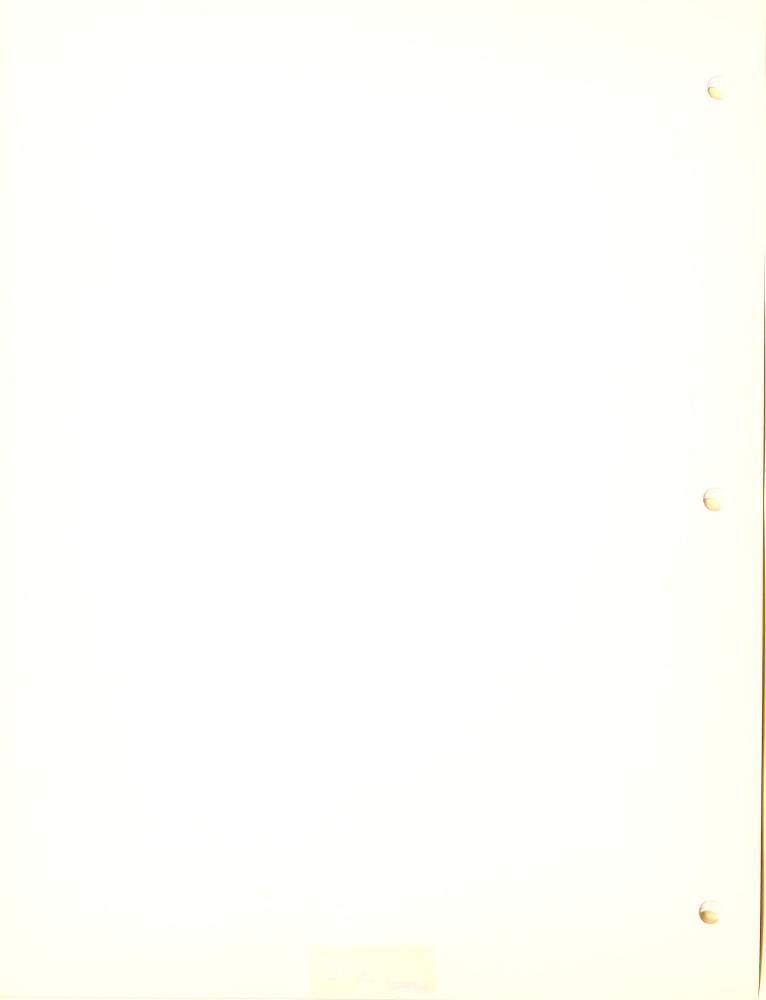






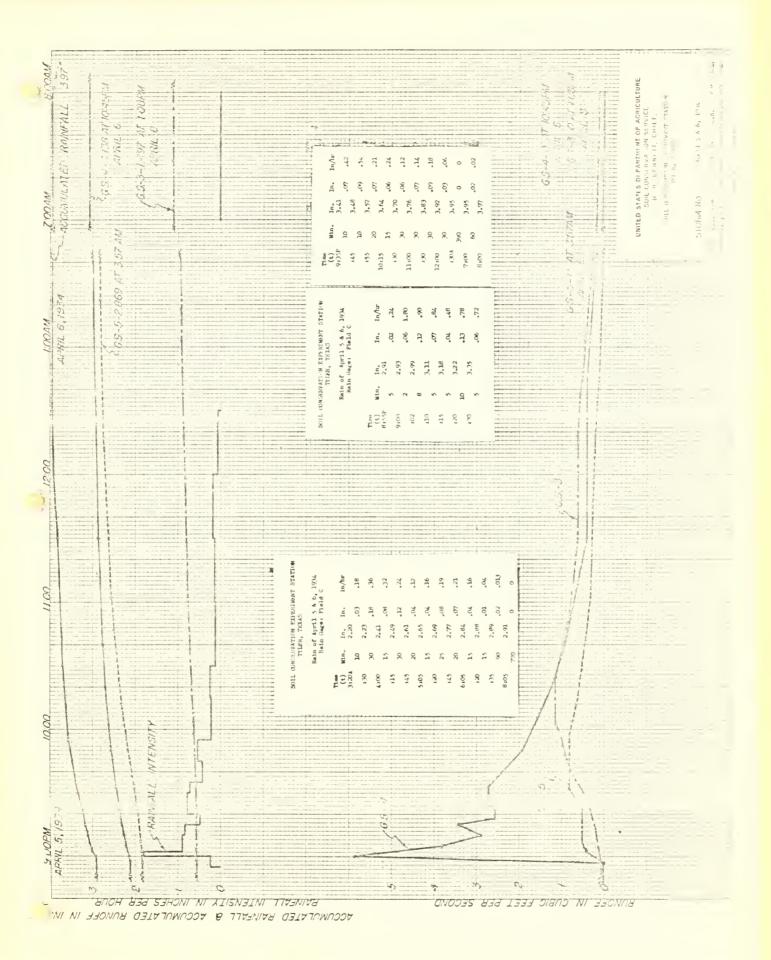


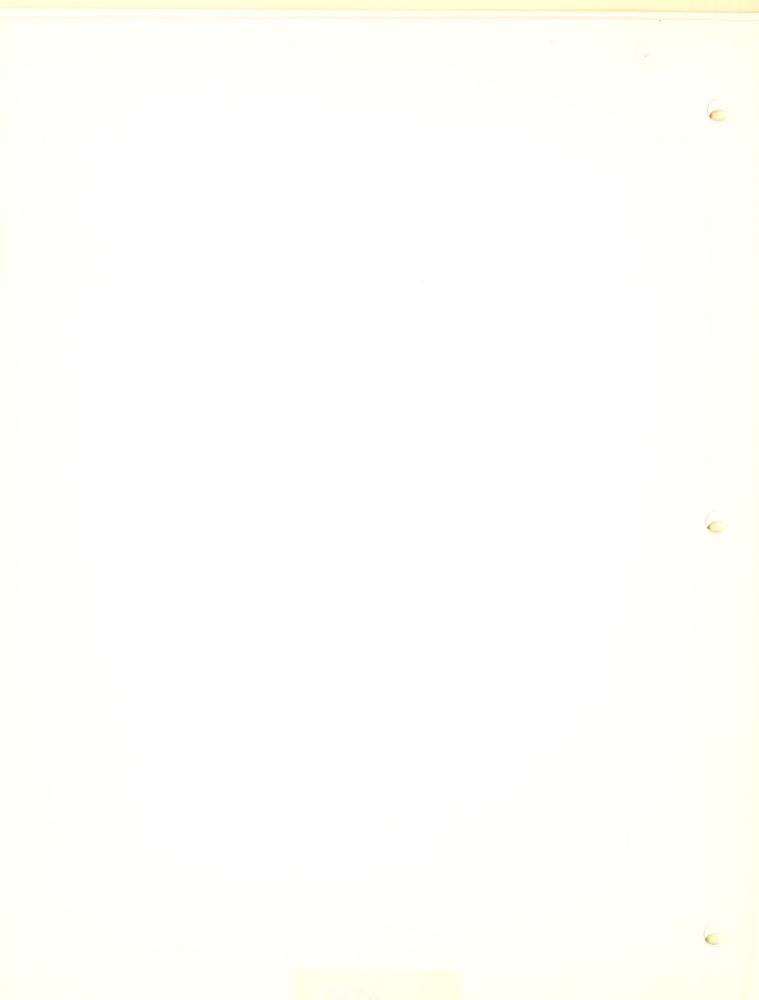
			<del> </del>
22		6 65 65	ACEPTER THEORY ESTABLE  ACEPTER TO THE CONTROLLINE  SERVANON STANCE  THE MENT OF ACT OF THE CONTROLLINE  SERVANON STANCE  THE SERVANON
NARCH 25		1 1 1 CH 28	
200	* Y	55	AONICULTURE AONICULTURE T STATION T STATION TO STATION
3	800		Admicely States and St
	P)	7	A. C. AT A STOPE ON
	E7 ~	1 10 4 1	SS 4 C AT ASSAME AND SELECTION OF ACT ASSAME
	34 = - 1 1	15 of	27 22776 17 17 17 17 17 17 17 17 17 17 17 17 17
H	\$ .	4	A STATE OF THE STA
	70 7	5.3-1-0.002. 1.0	STATES OF PARTY SOLL CONSERVE WITH THE BENNELL OF STATES OF PARTY SOLL CONSERVE WITH THE BENNELL OF SOLL CONSERVE WITH SALL SOLL CONSERVE WITH SALL SOLL CONSERVE WITH SALL SALL CONSERVE WITH SALL SALL CONSERVE WITH SALL SALL SALL SALL SALL SALL SALL SAL
2		831	A NO
\$	20 5	10	
	C. 11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	7. 7. 7. 9	UNITED STAT
	8 = 0 1	500	1 5 5 7 1 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 7 1 5 5 5 5
		y 14 4	4
8		4	100
5			
	=		
		3	
-			10
2 {			
S.E.		· · · · · · · · · · · · · · · · · · ·	
1			
200			
			The second secon
		h	
	4		The second secon
		H	
2		1	
3		1	
		NW7	
		1 2	
		E -	
- 72			A CONTRACTOR OF THE CONTRACTOR
	1	1 3 - 1	
MAPPORT.	1 = = =	1: 5	
35		1 12	
25			
- 2			
		1-1	
		1	
8770	PÀ 838 SSACVI VI X	I'S.VJI'	CINCOLES ELA LEEL NEO VETE

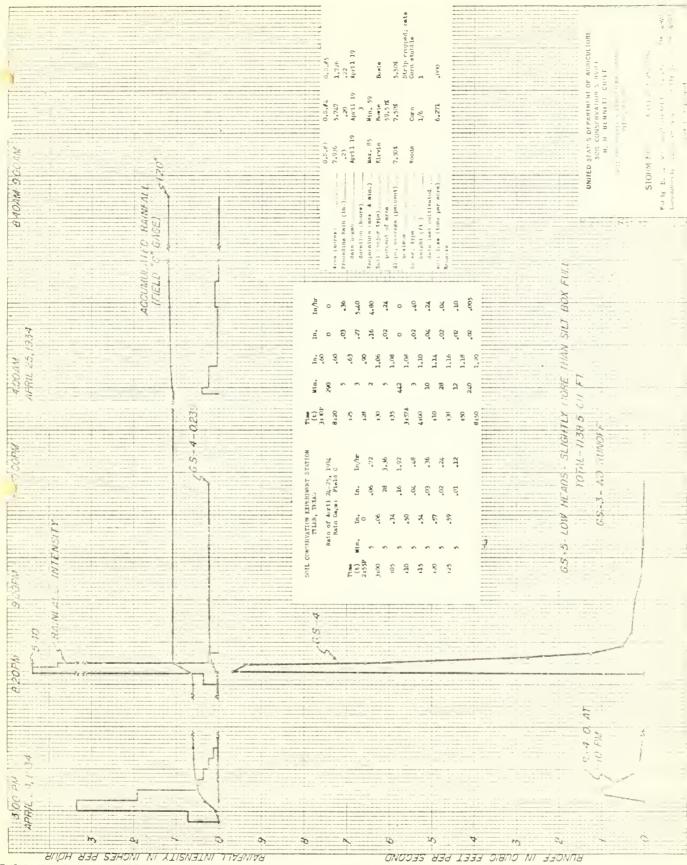


· P	ASTE 2006/21 2012		CO 5-1844 AT 10:0 AM			0.5.0 5.747	7-24 3-24 3-24 3-24 3-24 3-24 3-24 3-24 3	To 505   T				UNITED STATES DEPARTMENT OF AGMICULTURE SOIL GMESTMARION STATUCE  3.011. GW MINETT, CHILF,  MINE WINET HINDSHIMM STATION  TLE, TRAES	STOCH NC AND St. 6, 1934.  Nich are 12, 43-4 by 1. "R date 10.  Then by Y.J y a. w. world by Justille, did not not will not y deserte.
`	PQ 5				Min.	00, 00, 00, 00, 00, 00, 00, 00, 00, 00,	1,006 0.01 .36 1,009 0.09 1,000 1,148 0.09 0.78	5 1,76 1,09 1,09 1,00 colors, 1,00 colors, 1,00 colors, 1,146 1,90 1,20 colors, 1,176 1,17	144 11 1473 146 146 147 146 147 147 147 147 147 147 147 147 147 147	F			
	3.02 7.04 7.04 7.04 7.04 7.04 7.04 7.04 7.04					(c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	105 5 .06 .33 .33 .34 .35 .35 .35 .35 .35 .35 .35 .35 .35 .35	130	00. 7 77.			V-	
	8					7 /50***	7 in a service and a service a						
	6/1	ra SOR E3 A	, זא זאטייב	(IISN3I)	II TIVSNIV	4	W, OWO	35 838	iaaa dieno	אסצב זא י	na ma	9	













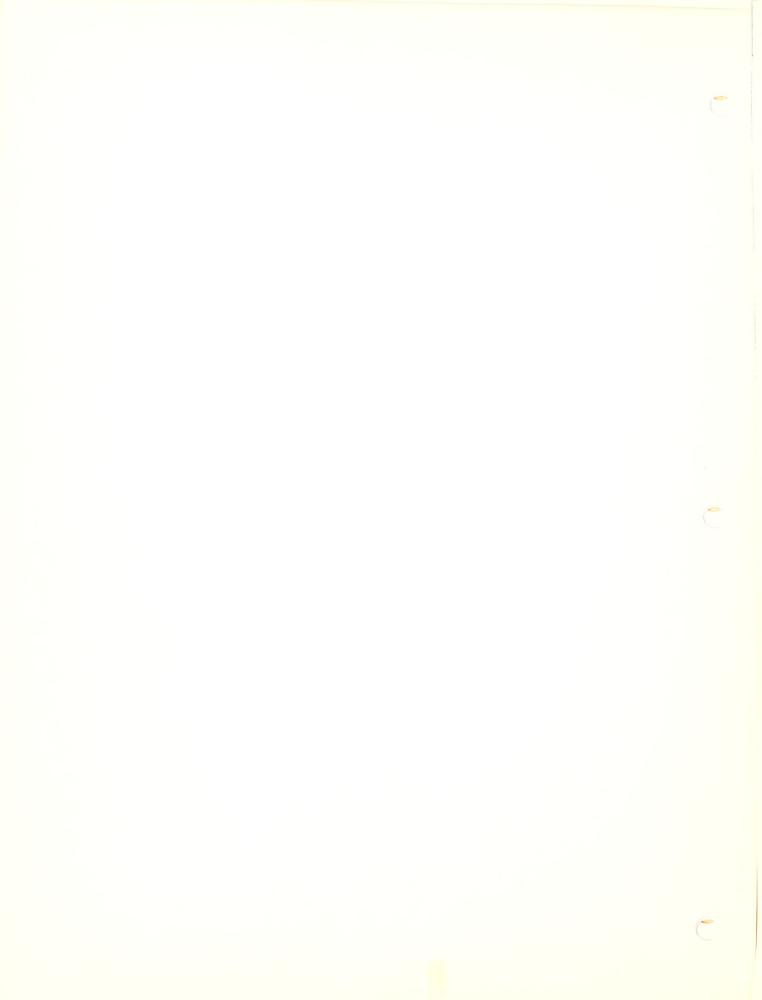
04	77	0.5. #5 1.726 1.00 Nov. 19	5,901  5,901  Strip corpused of the country of the	NOV 31	RICULTURE CE TATEC
	"C" CAGE)	5.3.4. 5.747 2.00 100.1.0	Min. 56 14-15 14-15 15-15 15-15 16-15 16-16 16-1	AT 2.30AM NOV	DEPARTMENT OF AGR
	A CELLO "CAGE)	0.5.73	est & min.)	20.4.0	UNIED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SCHOOL H BENNETT CHIEF. SHIFT CHIEF CONSERVATION TYPECT THE TO STATE TYPECT THE TYPECT
9		Areo in Feel Feel Feel Ann in Adote begin in in	feapersture  Soll (un jur  Blope, nvern  Blope, nvern  Blorght (ff  Blorght (ff  Borght (f	BOX FULL	
				5 KUMOFF	
900 18ER 20, 1934				65-3-W0	
NOVEMBER	17T INTENSITY		21. 22. 17. 24. 25. 17. 27. 27. 27. 27. 27. 27. 27. 27. 27. 2	0	
Č	RAINFALL	21 110 110 110 110 110 110 110 110 110 1	2, 200 9;00 5 2,24 ;05 ;05 ;05 ;05 ;05 ;05 ;05 ;05 ;05 ;05	8	
3		Fig. 193 Fig. 6  Fig.	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	1-0 47 6:39	
		110 MILE 1990 (C. C. C	551 57 57 57 57 57 57 57 57 57 57 57 57 57		
		SAINEALL INTENS		NOEE IN CHBIC EEEL B	0



ACCUMULATED RAINFALL & RUNOFF IN MCHES RUNOFF IN CUBIC FEET PER SECOND RAINFALL INTENSITY IN INCHES PER HOUR NF337 8 SOIL CONSERVATION EXPERIMENT STATION
TYLER, 15 KA. Rain of Nov. 21, 1934 Rain Gage: Field C WOVEN ER BY WENCH 1.72 1.03 1,00 22 22 .)2 5.01-0.05 6 ODAN 1,65 ž H O AL S BRAN MON 21 the term of the and the second date to the second s UNITED STATES DEPARTMENT OF ASH CULTURE

501L CONVERVATION S. HVICE

H. H. BENNETT CHIEF. STORM NO



Form 44, U. 8.-848

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Regran (hour) 9

Gaga No.

A rea (err as) ê

Number

DATE

1955

8

Ē

CAUTING SELLS. R. 12304

N. S. SPILLERSON

WATERAHAD

0.4-E-7 1-E-C

7.94

7 4 43

2 - 7

7,94

w 4 a

Jan. 19 Jan. 19 Jan. 19

্ৰ ল

7.94 5.75

443

2022

a 17.41 a - par જ ખ

7.94

9

Fob. 7

44

5.75

4 4

Fab. 7

Strip crypodiodiodicting stub" Strip cropodiodicting stub" Woods (wass) comment wats fair stand d'',com stabble wats d'', complum stabble , 19\_35 SHEEFE Cats fair 3", cars stubble . mail. srupped as all a surpension of the Outs fair 3"; corn stubble ne daw ha kurmuda da wed. en doods folks) cornent this far a"seofs atuable tate a"s aurediam stabble Woods (Udas) cornant Lata. J", corn stubble Cata J", cornant stubble Noda teaks, dermant out, s'iscer, stubble outs s'iscer, aum stubble Wods (Quhs, derigant Outs 3", cyra slubule Outs 3"; cyra slubble CUMPTION OF WRYSAMED 2 Nogae (Cake) avenuent Noods (bans, dornant Noods (bans, dornant Jan. & Feb. 9 MINNTH SHEET Sur Loss (tons per acre) 0.001 3.416 U-479 U-U-D C.032 4.431 (ER) AINTALL MINUS
HUN-OFF
(Inches) C.est. 2.005 L-074 0-705 973\*7 U.761 1.062 (11) ON VARIOUS WATERSHEDS No rute 6-56 4448r. 0-93 5+06rh 11,59AM 7.52.00 O.15 Biu5FM La rate Time 9 10.20 3.62 66.0 Cu ft aec (15) C.C?2 857°D 1.165 6,000 511 ECX 0.005 4:4378 1:1048 9.505 4:297812:1148 9.611 Amount (Inches) (1.5) NRD 6 a 5 5 a L. Es vorth 7 a C 2 m L. D a 3 2 a K 9:32PL 1:U5PL 3.4554 さっしいか Fuster) (hour) NO. YOU J Photecracks department Station, Talve, Joan. RECORD OF SINGLE STORMS AND THEIR RUN-OFFS NAC 10.42AE 10.55AE NR0 11.16AF 777 42524 Hegan (hour) NRO NRO 332 0.53 33 37 Lupellatifae Milah 2 4 4 2 3 3 CZ CZ CZ 300 3 47 33 33 3 3 5 5 3 5 5 6 3 5 5 6 33 3.00 g 74 74 74 63 63 222 34 34 333 335 67 6 minutes 16 minutes 30 minutes (inches per bour) (inches per bour) 94.0 1.50 JEST . 0.55 0.18 •98 9 Махимом Ветаналу 200 0.48 00.3 72.7 0.26 91.1 Ē 2.46 95.0 2,10 0.26 9600 7.6b Ē RAIMPALL C - 52 C - 52 C - 53 23 -4 24 -4 24 -4 C.77 C.75 C.75 Amount (inches) 1 284 1 284 1 289 1.16 1.06 10.0 (.16 (.15 (.17 19.0 3 Puration (minutes) 280 510 3 480 993 245 (8) 3148AM 110441 10.25AM 1149944 RAPT: T 11-5:Au 4:47FL

23 1

1.73

a a

Feb. 7

01 -1 71

7.94 2.75 1.73

May

00 20 20

Ful

Fet.

2-4-73

7.94 2.75 4.73

១៩០

Feb. 10 Feb. 10

douds (vaks) durmant cats fors 4", corn em chle-outs 4", porphan stuckle

HEC HEC HEC HEC

27.2

222

0.16 0.16

4-17

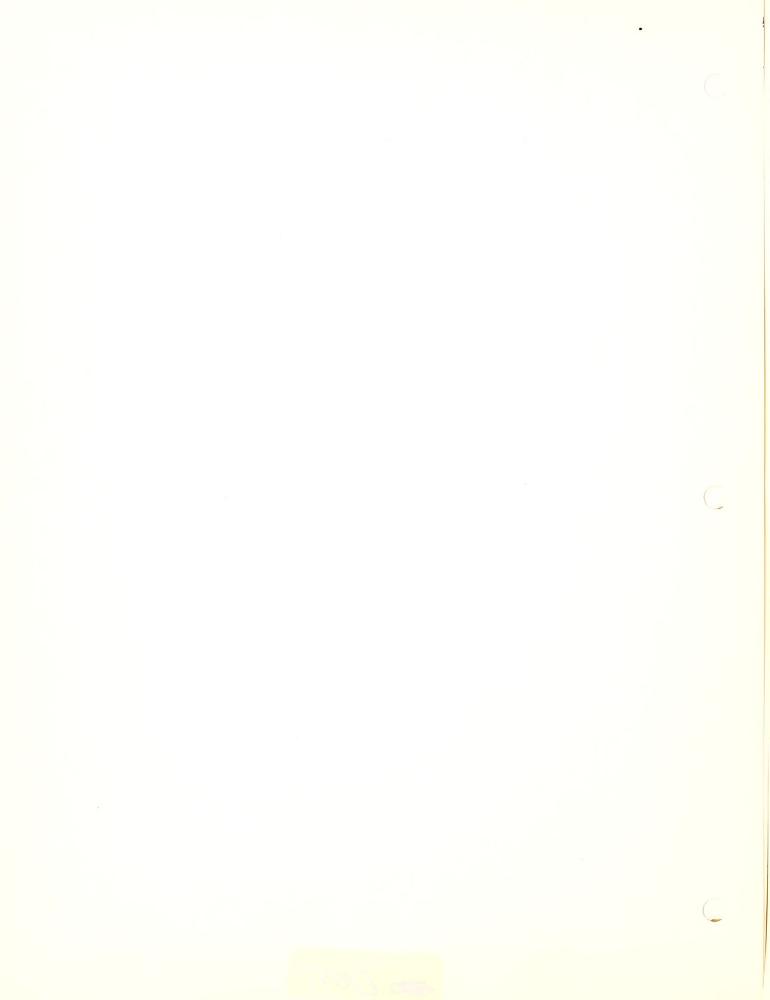
1.52.

7 4 .

24.7 27.2 27.4

च च न

777

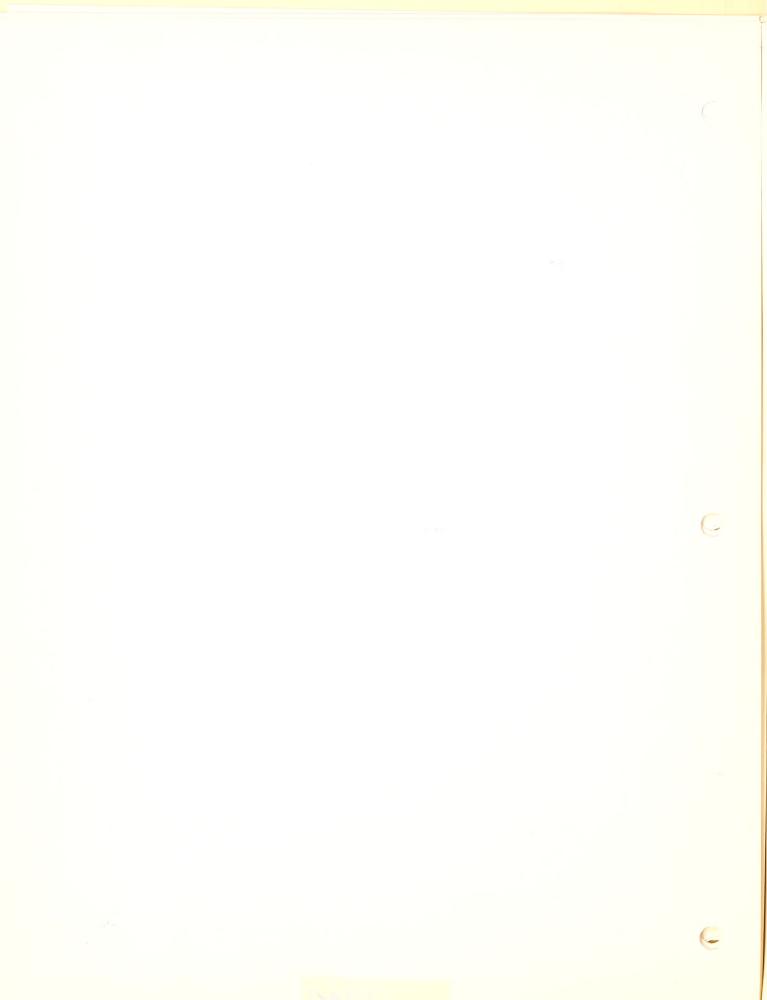


## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19.35

Month Mar. & Apr.

WATERBED	WAY	WATERARED				RAINPALL				Thertanature (degrees F)	RATURE IN F			Вин-овг					
Dava 1935	Number of the state of the stat	Arm (acres)	Open Np.	Hepp D (bour)	Duration (palautes)	Amount (inches)	h ninutes (inche per boar)	Maximum leramente 15 minutes (Inches per bourt) (Inches per bourt)	FF SO minutes (inches per hour)	Mariraum Minimum	Minima	Began (hotal)	Furled (Bour)	Amount (inches)	MAXISTOS RATE Cu ft sec Time		Rashvall, Minus Stun ore (inches)	Brry Loss (tone per sors)	Сомретон от W араван вр
9	(g)	(3)	9	(8)	(9)	(2)			(16)	Ē	5	(83)	9 1)	(84)	(18)	(10)	(13)	(88)	(30)
Mar. 4 Mar. 4 Mar. 4	e 4 a	7.94 5.75 1.73	2-F-6 1-F-C 3-F-A	1.46AW	935	1.36	1.92	1.64	1.37	69	2 2 2 4 4 4	7.52AN 1.19PW 7.53AN 1.19PW 7.53AN11.21AN	119PW	0.334 0.185	3.81 0.33	8 105.4 8 11 4 k	1.016	1.855	Woods (oaks) dorment Oats fair 4"; corn stabble Recently plowed (Feb.28,1935)
Mar. 5-6 Mar. 5-6 Mar. 5-6	ed 4.10	7.94 5.75 1.73	ପାଲ୍ଲ	11,508	45	0.28	96-0	0.64	0.38	79-76 79-76 79-76	52-54 52-54 52-54	NRO Silt box NRO	3	\$50°0	No	nte	0.245	0.053	Moods (oaks) dormunt Gats.4"; corn stubble Bare-plowed Feb. 28
Mar. 6 Mar. 6 Mar. 6	w 4. m	7.94	27.6	B 4 30 A L	23	0.48			P // (	76 76 76	444	NRO NRO NRO		1 1			84		Woods (onks) dormant Outs 4" fair; corn sumbble Bere
Mar. 11	m <b>=</b> n	7.94 5.75 1.73	સનલ	1140641	7.5	0.19	D-48	0.32	0.32	75 75 75	61	NRO NRO NRO							Woods (ouks) dormant Ouls 5"; corn stubble Bare
Mar. 12 Mar. 12 Mar. 12	m <b>4</b> m	1.94 5.75 1.73	ત્યન	1409AL	99	0.08				13	37	NRO NRO NRO							Woods (oaks) dormant Oaks 5"; corn stubble Hare
Mar. 26 Mar. 26 Mar. 26	W 4 W	7.94 5.75 1.73	યાના	12a24rW	4.	0.27 0.22	1.44	96"0	0.50	86 86 86	65 65 65	NRO NRO NRO				1111			Woods (oaks) in bud Oats 10°;corn stubble Gorn planted (Mar-15,1935)
Mar. 29 Mar. 29 Mar. 29	W 4 W	7-94 5-75	21 → 15			Truce Ladi Truce				22 22 22	3 3 3	NRO NRO NRO							Woods (ouks) in bud Outs luficors stubble Corsicontrol strip bars
*pr = 5 Apr = 5 Apr = 5	5 4 3	7.94 5.75 1.73	21-15	5 (48FM 161	161	0.19 0.15 0.13				889 89 89	67	NRO NRO MRO							Moods (oaks) in full leaf Oats;12" fair; corn stubils Corn planted (Mar.15;1935)
8 - 104 8 - 104 8 - 104	644	5-75	લનજ	12 4 4 6 FM	214		i ,			\$ 9 5	55 55	MRD							#oods (owks) in full leaf Cats 12"; corn stubble Corn 3"; control strip bare



Form 8. C. 8.-845

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

DIVIBION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19 35

ADE. & MAY

MONTH.

bura SHEETS Baro, harrowed April 24 Gorn 5", control strip bare Corn 10", control strip bare Onts plowed under Corn 4"; control strip bure Bare Corn 5", cantrul strip bare. # Woods (Ouks) in full leaf Woods (Cuks) in full louf Buro, hurrowed April 24 Corn 4" scentrol atrip bare Woods (Wans) in full leaf Oats 12";corn stubble Corn 3";control strip bare Woods (Ouks) in full loaf Boods (Ouks) in full loaf control atrip becontrol atrip becontrol atrip be CONDITION OF WATRABBD Outs 18" ; corn stubile 2 Woods (Oaks) in full 1935) 0. (1411) Corn 10", c e Dinked Buro Dare SHEET 10.331 0.000 0.013 0.043 10.090 0.025 1.067 Sury Lósa (kens per nors) Ê Raineart Meson Runcer (tuches) 2.192 0.397 1.31 1,331 1.25 (17) 4105Pu 11,36rN 4,03AL BILLAN 7.21A 7.2343 3.59al 11,32P3 3,48AB 9 a 30P! (91) FRIB Time MARINUM RATA 0.93 No 1.93 No Cu R. mc. 0.12 2.08 69.01 21.63 3.81 1.37 (18) 0.138 U.103 1.039 0.467 1.083 1.550 0 0 0 0 · T 185.0 Amount (luches) (3.6) MRQ 3456FW 6410FW Silt\_box 923 LAM 924 SAN 4145PM 11,26PE12146AU 1217AU 9,12AU BILLSPIN 413CAM 9,15点出 112.384 910BFN 413GAN En-lad (benit) 3 5 12 1 1 5 PM 11,26FW TALSAM TALLAN Plague (bour) (33) NRO NRO NRO NRO NAO NAO NAO NKO 19-99 (degrees F) 33333 62 222 62 5000 52 52 5 5 5 61 61 (8.8) 83-80 83-80 78 52 63 7.2 63 65 72 72 82 82 222 55655 5 minutes | 10 minutes | 20 minutes | Inches per hours | (Inches per hours | (Inches per hours | 1.60 0.88 0.20 0.46 0.88 0.2B 96"0 1.42 (00) MARROUM SHTGHUTT 0.36 0.20 0.72 1.08 96.0 2.64 1.52 2,24 3 08.7 09.0 1,08 1.56 2.16 1.56 0.36 3.12 (8) RAINFALL Amount (Inches) Traca 0.78 0.35 0.75 2.45 2.33 2.17 2.05 5.51 1.89 2 . 2 . 2 . 2 . 3 4 . 2 . 3 4 0H 0.55 2.53 6 1050 Duration (minutes) 418 262 310 195 850 18 ê Project 3CS Experiment Station, Tyler, fexes 3142PM 6 aClass 1.20ak MARTET 6.3BPM 11.449aki 11147PM 6 150AM Began (hour) (0) 2-F-FD 1-F-G 3-F-A 7-P-4 Ongs No. 4 വേഷത 7.94 5.75 1.73 7.94 5.75 5.75 7.94 5.75 1.73 5.75 Area (acres) 5.75 4494777 5.75 1.73 1.73 (9) WATRESTAN e1 4 0 Number 4 4 4 เกลเก m 4 0 ed 44 70 m 4 л 4 n m m S ê Apr.25-26 Apr.28-26 Apr.25-26 Apr. 10 Apr. 10 Apr. 10 Apr. 19 Apr. 20 Apr. 20 Apr. 20 May 3-4 May 4-5 May 5 28 28 28 3-4 2 4 40 5 4 225 2 2 DA78 1935 NN ŝ Apr. Many May Easy Many



Porm 8, C, N.-545

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 1935

MONTH May & June

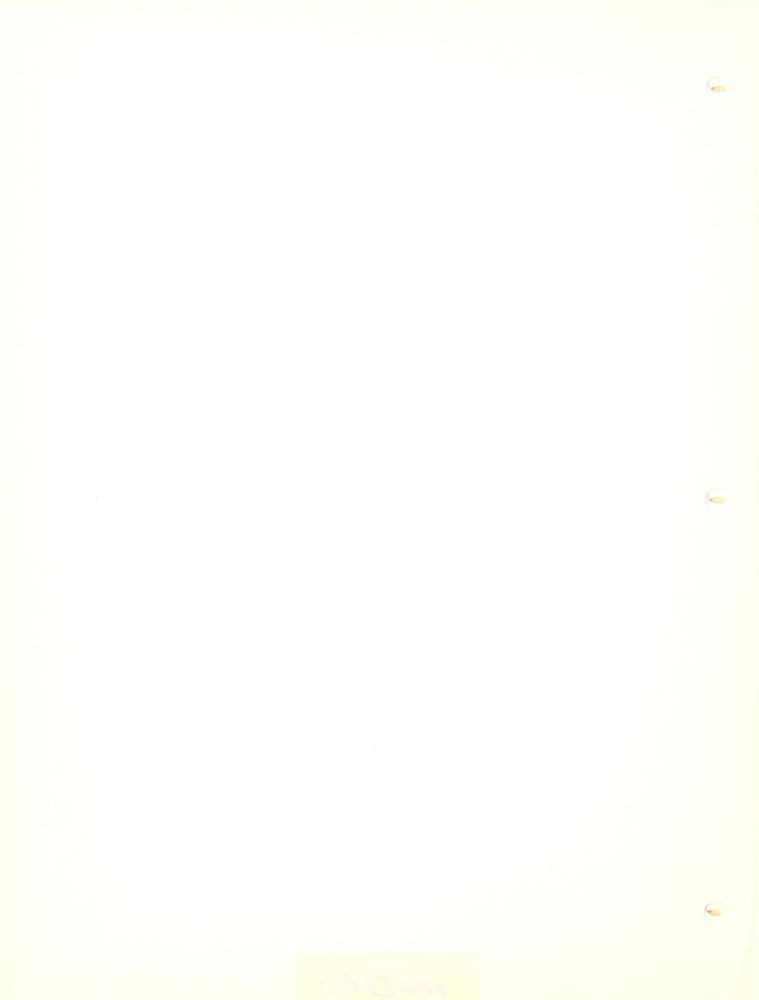
0.0

4

SHEET

Strip cropedicornidates garing BILLINETE Woods (waks) in full leaf Cowpeas planted Est 25, 1935 Woods (Caks) in full leaf Cowpeas Plunted Eas 25, 1935 Moods (Ouks) in full louf Fallow; bare Corn;18"; bare Moode (vake) in full leaf Fallow; bare Corn; le"; bare Disked (May 8, 1935) Cornicontrol strip disked Woods (Ouks) in full leaf loods (ouks) in full louf Jood 1 (Ouke) in full leaf Woods (twks) in full leaf Compens 1," fuir stand Corn 4°; Redtop sorghum, 10 TION OF WATERABLE durn placed, bere (1 G) WE COMPOUB 3.681\* Fullow; bure C.033\* Corn 21"; bure Fullow; bare Corn 21"; bare 3/14/35 Sur Loss (loss per sere) 3.360 3 TUNEAU MINUS TUNEONE (Itaches) 0.705 0.476 0.571 (17) 2,52PM 5.47FM 5.55FM 8+374H Time 9 MAXIMUM HATS 10.34 Ou ft sec. 2.57 4.11 (18) 0.334 0.485 0.142 RUN-UFF Amount (fuolises) 9 (3 1.10 8.35ak 1.47rk 8.35ak11.50ak NRO 2:42PE 8:21FE 2:42FE 5:35FE 2 100,M Kndel (hour) Ē NRO SALEONN 9 LEOAN Hogan (hogar) 2 MRO MRO MRO EHO GH NHO LHO CHI 999 553 TREPRSATURE (degrees F) 999 999 2 7 7 9 99 99 64 9 9 9 600 19 Ē E E E 222 222 73 73 BB 88 98 333 helinites 16 minutes 30 minutes nobes for thouse per limit 1.36 0.72 0.36 49°0 (94) MASSMUM SPERMIT 2,32 1.16 0.72 95.7 ŝ 3.12 T.CE 1.44 1.444 Amount (facbes) 1.10 0.455 0.455 0.45 60°0 20.01 U.82 U.79 38.00 0100 0.000 6 Duretton (minutes) 220 176 465 9 37 10 PROJECT 5CS EXperiment Station, Lyler, Fexas 100 5.21PM 12:50PI 7. 3Call BILLIAN 9 110524 413914 Hogan (bour) 2-F-E Gas No. 3-8-14 ~ ~ 3 थ न ल લનલ 247  $\alpha \rightarrow \alpha$ 2 -1 7 M. R. SEDERHTARI PRINTING SECISE # - 12308 7.94 5.75 1.73 7.94 5.75 1.73 5.75 7.94 5.75 1.73 7.94 7.94 5.75 1.73 7.94 5.75 1.73 7.94 5.75 1.73 A ros (acres) ŝ WATERBER Number w 4 4 @ 4 4 5 w 4 0 444 অৰংগ യക്ര 22-51 Kura 19-20 18-30 June 11 June 11 June 11 Eay 29 May 29 Lay 29 kny 14 kny 14 ilay 14 113 15 147 15 147 15 81 544 18 544 18 544 നുമു DATE 1935 16 16 16 June June June 111

\*Inc. hus 16-19-20



Form 6, C, 8,-845

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF HESTARCH

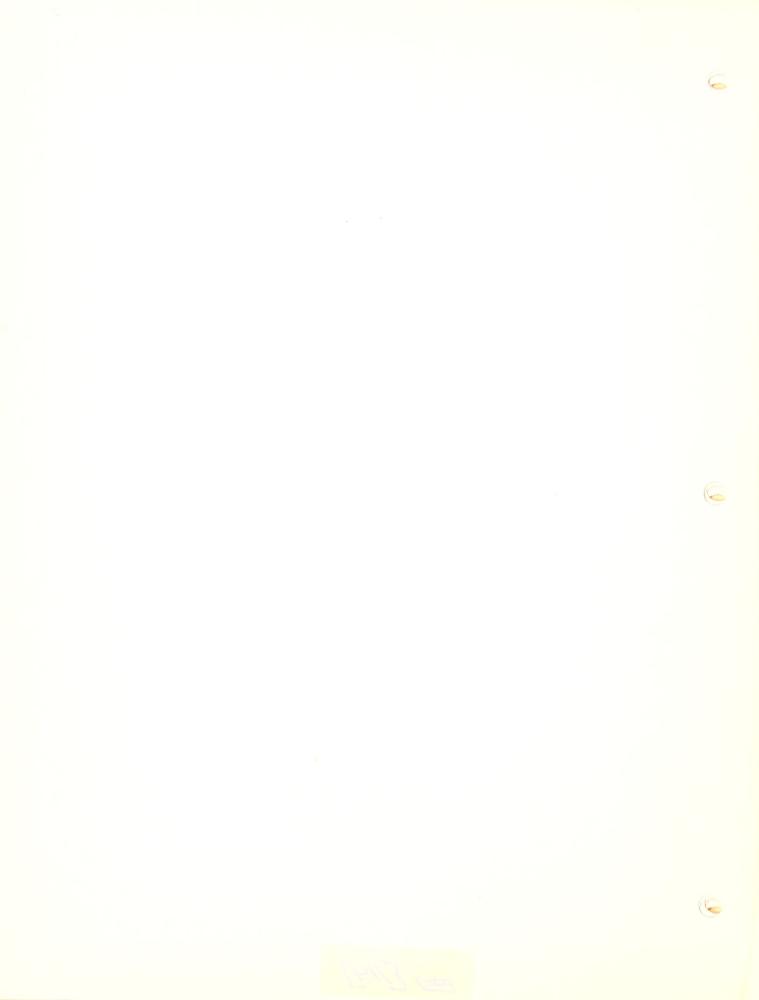
W. A. SOLISM HELL PRINTED SOTTING . R. 12308.	WATShousd	Q# 80				RAIMFALL	1			Tearmarthus (degrees F)	nattina na V )			RUNOFF			and the second second second		
DAM.	Number	A rea (acr us)	Gage No.	(hour)	Duration (mioutes)	Arnount (inches)	6 minutes (inches par hour)	A ALIMO DE LETTRANDY V TO TAIMITON (Inches per hour) (Inches per hour)		Maximum	Maimen Minimum	Bogns (Junit)	Ended (bour)	Amount (finches)	MAXIMUM RATE Cu ft sec Thin		Rappeall Minus Ethnetopp (Inches)	Rity Exee (ford per acre)	CONTITION OF WATERWISH
÷	(2)	(3)	3	(0)	(8)	(2)	(8)	(9)	(10)	1	1	(12)	(63)	(11)	(10)	(9)	(12)	(11)	(01)
June 13 June 13	m m	7.94	2-F- 2-F- 2-F- 5		} ;	0.07			111	83	73	NRO							Woods (ouks) in full louf Woods (ouks) in full louf
June 13 June 13	ক ক	5.75	1-F-C 1-F-C	1,10PM 5,07PM	20	0.03				83	73	NRO NRO	-		1	•		Į.	Cow pens 2"; fair stand Cow peus 2"; fair stand
June 13 June 13	a a	1.73	3-F-A 3-F-A			\$0.0				83	73	NRO						V.	Corn 5', Redtop-sor <sub>E</sub> hum-cow pess Coru 5'; Redtop-sor <sub>E</sub> hum-cow pess
June 14 June 15 June 15	<b></b>	7.94	0.01.01			0.60	' '		111	81 80 80	72 72 72	NIGO NIGO NIGO	6 11					J tr	Woods (ouke) in full leaf Woods (ouks) in full loaf Woods (ouks) in full leaf
inna 14 une 15 une 15	***	5.75 5.75 5.75		11074M. 5447AM.	130	0.02				6 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	72 72 72	NRO NRO NRO							Cow purs (plowed) 3" Cow purs 3" (plowed Jure 14) Cow purs 3" (plowed Jure 14)
une 14 une 15 June 15	n n n	1.73	ed ed ad			* * 0			(h)	81 80 80	74 72 72	NRO NRD NRO	Jal			1			Corn 5' seorghum a compens Corn 5' seorghum a compens Corn 1' seorghum a cumpems
June 15 June 15 June 15	തതത	7.94	યતવ		3 I I	* * *			1111	8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72 72 72 72 72 72 72 72 72 72 72 72 72 7	NIO NBO NBO							Monds (onks) in full leaf Moods (onks) in full leaf Woods (onks) in full leaf
June 15 June 15 June 15	चंब च	5.75		3146PW 7138rW	27 15	0.04				800 800 800	72 72 72	NHO NBO NHO	7 1		1 1				Cow pene(plowed June 14) Cow pount(plowed June 14) Cow pene(plowed June 14)
June 15 June 15 June 15	พพพ	1.73	ттт			0.18				800 800 800	72	NRO NRO NRO				h. h			Corn 5'seorghum; cow peus Corn 5'seorghum; cow peus Corn 5'seorghum; cow peus
June 17-18 June 17-18 June 17-18	m 🕶 us	7.94 5.75 1.73	on He	9,03/1	190	1.16	1.68	1.44	76"0	68 88	76 76	NHO 9.57PM 3. Silt box	3145AW box	0.130	2.82	10.01PM	1.02	1.504	Woods (oake) in full leaf Cow peus 4" fair stand Corn 50, peorghum; cow peus (plowed)
17	,								al, i			1		1	1	;		+ 3(1	
1000	+			•				Statistics with											



Form 8, 0, 8,-848

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

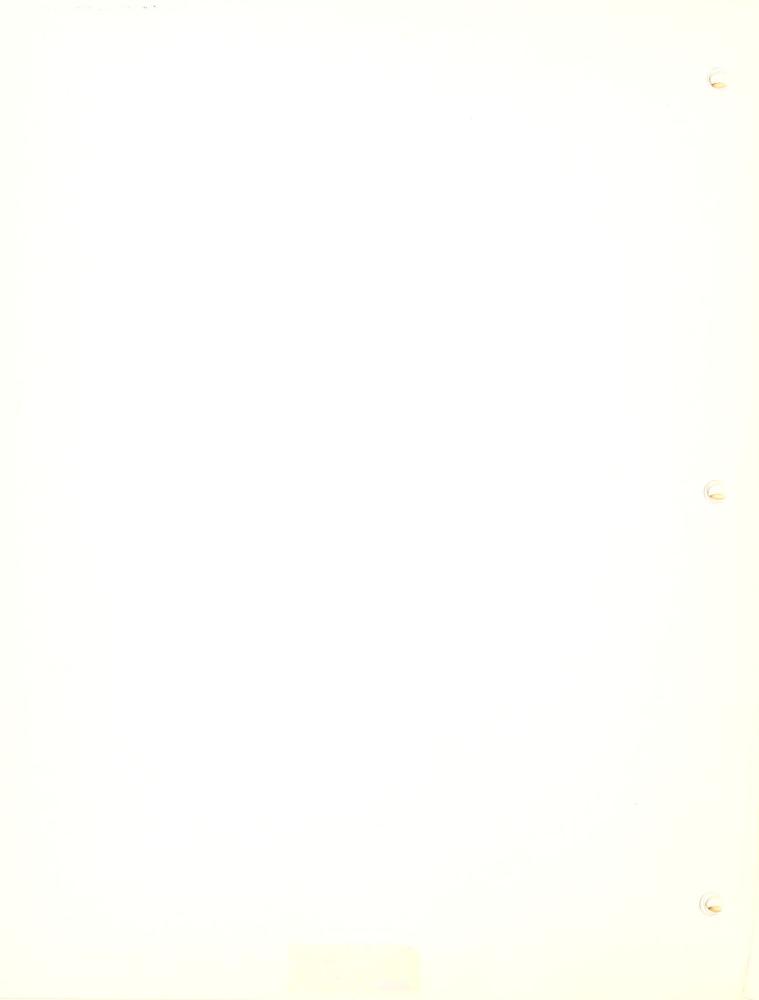
	WA	WATERABLD				RAINTALL	t			Frames (dagre	(dagrees F)			Вон олг					
DA73	Number	Arms (acres)	Clays No.	Degad (bear)	Duration (minutes)	Amouni (inclose)	MARINE He four) (faches le m	Mariaum Internetty  10 minutes (listine per loser)	f Invandary finites No minutes for boar) (inches per boar)		Maxinum Minimum	Began (hour)	Roded	Amount (toches)	MARRIAUM HAYM On ft sec. These		Raineath Minera Runder (Inchas)	(home per sores)	Соирттон от Матаванар
3	ê	(3)	3	(8)	(9)	6	(8)	(5)	(01)	15	-	(13)	(13)	(14)	(91)	(116)	(11)	(18)	(81)
June 21 June 21	m m	7.94	2-f-Fb			0.15				888	67	NRO							Woods (ouks) in full leaf Woods (ouks) in full leaf
June 21 June 21	4	5.75	1-f oc 1-f oc	8103AN 5106PN	24	0.12	1.80	0.32	0.24	689	67	NHO 7.21PM		10,05F# 0.053	1.24	71220	0.367	0.327	Cow poss 6"; fair stand Cow poss 6"; fair stand
June 21 June 21	-n -sa	1.73	3-5-A			0.10			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	88	67	NRO							Corn 6's sorghum; cow peas
July 2 July 2 July 2	ന്നുഗ	5.75	લાનજ	MALOTE	23	0.60	2.28	2.2	1.28	03 03 03 03 03 03	222	NBO 811t	r og	010-0	Ng P	ate.	0.630	0.040	Woods (oaks) in full lesf Cow poss (plowed June 28) Corn (hood June 28) sorgums; cow yess (plosed June 29)
July 3 July 3 July 3	আৰংগ	7.94 5.75 1.73	2115	412912	Q9	1.52	4.56	4.20	66 68 68 68	000	222	5133PW 5116PW 5120FW	6 12 5 12 M 6 12 5 12 M 6 14 5 12 M	4 0.013	23.06	5146Pu 5135Pu 5143Pu	1.507	0.002	Wondy (onks) in full leaf Cuw peas 12%, fair niand Strip propped;corn 7% norghus & cow peas
July II July II July II	w 4 v	5.75	мим	14120	20	0.08				E 08	75 75 75	MRO							Woods (owks) in full leaf Core grass 16"; cultivated Corn 7°; corglumicon peas
July 12 July 12 July 12	m a n	7.94 5.75 1.73	21.16			0.01				0 9 8 0 4 49	72	MRO MRO MRO							Woods (oaks) in full haf Cow pees 16"; cultivated July 11 Corn 7°; sorgium; cow peas
July 16 July 16 July 16	w 4 N	7.94 5.75 1.73	લાન	MILI		0.01				222	60 6	NBO NBO NBO		7					Woods (pake) is full leef Cow pass 18"; fair stand Corn 7°; sorghum; cow peas
July 21 July 21 July 21	W 44 VI	7.94	ol il ul	1,5227	SO	0.67	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.00	1.26	333	73	2.15PK	3.13.PM	0.00.0	Oals An	AAZSER	0.870	1.484	Woods (oaks) in full lasf Cow pass 22°; fuir stand Corn 7°; sorghum; cow pass
July 23 July 23	m m	7.94	01 01			0.05				88	74	MRO							Soods (cake) in fullleaf Toods (cake) in full leaf



UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Monry July, Aug. & Sept. , 19\_35

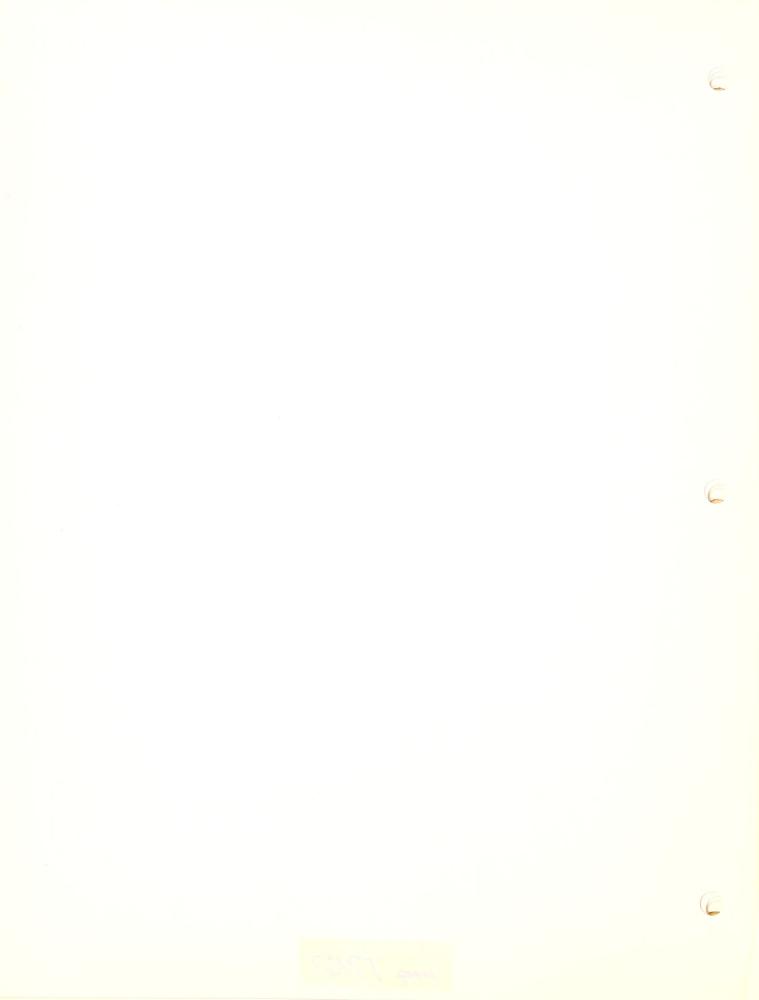
Thursenting Hunges (dugree F.)	MARINGUE INTERNATY  MARINGUE INTERNATY  Shinting	(M) (10, (11 12) (11 (15) (16) (16) (17) (19)	2 ub 74 AU Cow poue 24"; fuir stand 6u 74 hAU	BB 74 NRO COM 7* ANTO COM PURB COM PURB COM PURB COM PURB	95 74RO	90 69 hith leaf Cow press (seed flary still leaf one by the book limity still leaf one by the book limit book point (seed one by the book of book one by the book one by the book one book one by the book one book one by the book one book	1 2.16 1.50 87 72 NHO 4.91 6127aM 0.912 1.350 Cow pou virue .4 Strip cropped; corn 7: 10.05 NHO 517 NHO 510 NH	2 46 74 hito Cow pea vines 24"	3 69 Nato	2 70 NRO 60xms) in full loaf 60xms in full loaf 92 70 NRO 50xms plowed under 50xm cropped cornspondations	Dans Dans Dans Dans Dans Dans Dans Dans
Raimpatt	A Drougnt (Inchen)	(3)	0.02	6n°0	2.2.0 2.2.4 2.2.4	0.21 0.17 0.15	1.09	0.02 0.02 0.02	0.03	2000	0.35 0.38 0.38
	HAGER Duretton (nour) (minutes)	(5) (6)			7.13FM 22	61504M 422	4143nW 250	1 1 1			12:52FW 85
	Ga te No.	-	0	3-F-A	23 - 12 D	217	316	247	વનલ	244	ଷ୍ୟାଷ
	Area (acres)	- (-1)	5.75	1.73	7.94 5.75 1.73	7.94 5.75 1.73	7.94 5.75 1.73	7.94 5.75 1.73	7-9-1 5-75 1-73	7.94 5.75 1.73	5-75
	Number	(2)	44	ശ	യകയ	നേഷംഗ	es 4 ns	m or a	. A 4 ∪	लक्ज .	ศ 🕈 ภ
		-			500	113	444	777	ज क क अ ला ला	444	444



# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF HESEARCH

Monru Sept. & Oat. 19 35

WATERNIED	WAT	WATERHED				RAINFALL	7			Trans.	Transmission (Copress b)		1	KUNOFF			And the same		
DATE	Number	Arva (mytha)	Coge No	Began (hour:	Ityration (minures)	Amound (Inches)	6 minutes	MAXIMUM INTERNITY	Elected Intendity  [Baltinies   Wantinies   Wantinies	Maximoni	Minimum	Regall (hour)	(hour)	Auppoint (tirches)	MAXIMUM RAPE Cu R 600 The		RAINFACE MINUS RUN-DES (Inches)	Stry Loss (tota per arrel	CONDITION OF WATERWIED
CFRT	(3)	(3)	+	(6)	(P)	(2)	(8)		9		111	613	(1)	(14)	(18)	(119)	(17)	OBO	(01)
Sept. 9	63 63	7.94 7.94	2 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -			0.58				65 65 65	899	Ohn		1			i I		Woode (onke) in full leaf Woods (oake) in full leaf
e opter	4 4	5.75	1 -E -E -C	4:041W	425	0.73	0.48	0.40	0.32	a to	999	NAO							inre Bure
Sept. 9	พาเก	1.73	3-3-5 4-3-6			0.91				85 85	68	NRO			1	4			Corn; sorghum a vines Corn; sorghum a vines
Sept. 24 Sept. 24 Sept. 24	ભાગભ	7.94 7.94 7.54	ભાગભ							86 86 86	67 67 67	NRO NHO NHO			1		1	1341	Woods (ouks) in full leaf Woods (ouks) in full leaf Woods (ouks) in full leaf
Sapt. 24 Sapt. 24 Sapt. 24	ককক	5.75 5.75 5.75		11.15.12 12.50.74 3.42.PM	27 15 108	0.08	1.20	1.04	09*0	86 86 86	67 73	NAO NAO		l <sub>l</sub>	11	1111			Oute (plunted bept. 16, 1935) Oute (plunted bept. 16, 1955) Oute (plunted bept. 16, 1955)
Sept. 4		1.73	m ca . ;					1		99 98 98	6.7 6.7 6.7	hide Nide NRO			1				Gornjeon <sub>ti</sub> lum a vineu Gornjeon <sub>ti</sub> lum a vineu Gornjeo r <sub>e</sub> lum a vines
Sept. 25 Sept. 25	m 4 va	7.94 5.75 1.73	21 - 22	1,21.24	66	0.73 0.21 0.80	09•0	U.48	n.26	77 77 77	68 68 68	OHN	1			Toget I			woode (onke) in full leaf Carts up, good stand Cornseorgium a vines
Sept. 26 Sept. 26	m m	7.94	24 4			9-71				90	71 71	Diric				1.8			Moods (oaks) in full leaf
Supt. 26 Supt. 26	वाव	5.75		2 + UOnM b - 4 3 A B	44	0.10	1.32	0.56	0.40	18 18 18	71 71	Ardo			1				Oute; good stund
Sept. 26 38pt. 26	a a	1.73	הני			# D 55				80 80	71 71	P.HO NAO							Corn dornant; sorplium a vines
50pt. 26 50pt. 26 50pt. 26	সকল	7.94 5.75 1.73	ଷ୍ଟ୍ର	Marca &	m D	10.54 0.55 0.55	2.28	ን የዓ	1.0%	80 0 0	77 77	NiW Silt box	x oq	0.014	No rate	6 9	0.596	0.034	Woods (oake) in full leaf tuke; cood etund Corn dormant; sorghum a vines
Oct. 10	m -	7.94	01.0			05-7				77	62	Darki Darki							Noods (cuks) in full lenf



Form 8, C, 8,-845

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

WATERABLE	WA	WATERABLED				RASPELL	1			Tearesatues (degrees F)	A*U0E 0 F J			RUM-OFF					
D.1.0				4			4	MALINUM INTERNITY				Page	-	Amount	Maximon Rays		RADIFFACE MINUS HUNGER	Str Loss (sons per sors)	COMPITION OF WATERSHED
1935	Number	(access)	Clare No.	(poer)	Paration (minutes)	A mount (Inches)	6 minutes (Inches per hour)	(Inches par hour) (inches per hour		Metinum Minimi	Minima	(hour)	(hour)	(inch=)	Cu ft soc	Thms			
ŧ	Ê	(3)	3	(9)	(0)	(3)	(8)	é	(01)	=	-	(13)	(83)	(14)	(10)	(16)	(17)	(18)	(61)
Oct. 10	4 4	5.75	1-F-C	1:17AU 2:57FU	265 1 29	0.48	09.7	6.24	65°0	77	622	NRO							Oats 1"-2" good stand
Oct. 10 Oct. 10	N N	1.73	3-F-A		D	0.50	+ + + +			77	62 62	NHO	+++-						Bare (crop barvested, Oct.1)
Oct. 18 Oct. 18	3	7.94	2-F-Fb 2-F-Fb			0.40				80	57	NRO	1						Woods (caks) in full losf
Cct. 18 Oct.18	44	5.75		2142PN 4141FN	13	0.36	96.0	0.52	0.52	80	57	MAD							Oats 1"-2" sood stund
Oct. 18	49 49	1.73	99			0.42		1		03 03	52	ISHO							Mareiplowed, surface disturbed during Winter by removal of bermuna.
Oct. 22 Oct. 22 Oct. 22	F 4 5	7.94 5.75 1.73	27-	TALLEY	276	1.06	1.20	09*0	0.68	88 58 88	72 72 72	NAO NAO NAO							Woods (ouks) in full leaf Usts 1"-2" good stand Hars
Oct. 23 Uct. 23 Uct. 23	m 4 v)	2.96 5.75 1.73	31-17	4 ± 35 m	796 7	2.12	42.0	0.20	u.n	82 82 82	24 4 2 2 2	N'AO N'AO				t processor and			Woods toaks; in full lanf Cats 1"-2" good stand
Oct. 27 Uct. 27 Uct. 27	21 4 CI	7.94 5.75 1.73	ลาก	12,2801	700	3.18 3.29 3.30	2.64	2.04	1.66	72 72 72	19 19 19 19 19 19 19 19 19 19 19 19 19 1	7.524k 7.054k 7.034k	7.52ak 9.58ak 6.027 7.05akll110ak 1.188 7.03ak 1.00rk 0.944	0.027 1.188 0.944	0.27 6.22 1.24	8,35aM 7,552aM 8,30AM	3.153 2.102 2.356	0.006 5.330 0.119	done forker in full leaf. Cate at Lood stand
Oct. 30 Oct. 30	243	7-94	87.5	,		0.10				78 78 78	65 65	NAD NAO		1			H:	14	doue (oaks) in full leaf
Z C C C C C C C C C C C C C C C C C C C	40	7-94 5-75 1-73	ଷ୍ଟାଣ			0.26 0.26 0.24	96*0	03*7	0.30	73 73 73	2 5 5	NHO NHO NHO				1:111			douns (ouks, in ful, leaf Oats 2" good stand bare bermuda roots removed
Move 4	লক	7.94 2.75 7.75	જન			0.46	1.32	0.76	1.44	76	27 74 27 53	541t	xoq	C.045	no rute	100	0.415	0.051	Accas (caks) partishly actually automant

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Magnet Chall	WATHERNEY WATHERNEY				Hames	7		•	Transautine	A Tribe	At all house he spirits	36	Ним овя					
Number	# Î	d X	Began (hour)	Dureikin (minutes)	Amennt	Manutaes	Maxim on the Paragraphy (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	10 minutes at minutes at minutes and minutes at minutes at minutes and minutes are found for minutes are found for minutes and for	Madmus Mintmus	Minkau	Began (bour)	Ended A	Amount (finches) Cu	MARININ RATE Cu R. sec. Tilni		Raineath Minta Runabr (Richan)	(tons per some)	Сомыштим ов Матеманер
(8)	(3)	-	(9)		(2)	(14)	(3)	(10)	111		0.5	(Lt)	1140	(1.5)	(66)	(4.7)	(18)	(940)
ma ma	7	2-7-Fb 2-8-Fb			C.02				SI SI	94 4	NRO					1		Woods tours, jurticuly.
44	5.75	1-F-C			C.02		11	11	2 2 2	46	NHO NHO				1 1	ij,	111	Outs 2" Lood stund
	1.73	2-8-4 2-8-4		* * 1	50.0 0.13				223	000	UHU Lirko						0 1	Bure
Nov.9-10-11 3 10 Nov.8-10-11 4	7.94	7 7	2.441W	2151	2.16	047	1.76	1.12	98-76	08-50	Triche Mastri		720.0			2.133	2,06.2	Nous (verts) partial., W. wis (verts) artss.ly Oats ?" good stand
10 11 10 - 2 - 10 - 11 - 5	++++	m			1.88				19-76	65-40 N	7:15FELL:COFE, 2:17ak, 3:1Cak Nov-lo N:0-11 7:16FE Z:185E		U.734 U.521		7:17FW 1:419AM 1:419AM 1:414AM 1:414AM	1,359	3.256	Oats 2" good stand Cats 2" good stand Care Dare
2 2 2011	7.84 5.75 1.73	21 -1		1	0.43 0.41 0.45	1	1 1		7.8	333	NRO SIIC L	ک ا ا ا	52.5	) N	o na	\$85.0	0.010	Nouds (.uks) swrtzusly twip 2" good stund bure
25 - VOW 25	2.94 2.75 1.73	જનાળ		1	1.000 0.92 0.83 0.83	7.60	28 6 ° O	9 2 5	3 3 3 3 3 3	4 4 4	LIRO 4.25FMLO.45FM Julo		n.108	1.57 4	4.262%	u.12	0.094	woods (onks) dormint onts 3" wood stand bare
লক্ত	7.94 5.75 1.13	व्यन च			0.16 0.16 0.15				47	222	-Ro NRO NAO						(i   i	Woods (oaks) dormant Oats 3" good stand Fare; bermidda roots ramoved
0 0 0 1 1 1 1 1 1	7.94 5.75 1.73	ਨਾ ਜਵਾ	MIOUIE	इ.इ.च्य	30.00	1,60	1,28	B7• T	3 3 3 3 3 3 6 1 1 1 7 27 7 2 3 3	40-04 40-04 40-122 50-04	0143348 7157145 7 7104042 7150432 7	7 15714 C	5.44 1.734 1.735 1.0555 1.0555	3.3.3.5.0 3.3.3.0 3.3.0.0 3.3.0.0 3.3.0.0 3.3.0.0	23.30.M B 154.AM B 159.AM	2.516 2.516 2.521 2.525	0.004 1.007 1.007 0.193	Woods (ouks) dorment Unis of Lood stund Ewro
11 12 12 12 12 12 12 12 12 12 12 12 12 1	7.94	alaw	1111		21.0				300	220	ind SAO NHL				1 1			Woods (cake) dorgant Cate 3" Lood stand
### ###	7.24	Nide		1	0.28 0.28 28 28				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	999	o hindo Brid						111	Node (oaks) dormant (atg 3" good stand Barns bernade roots removed





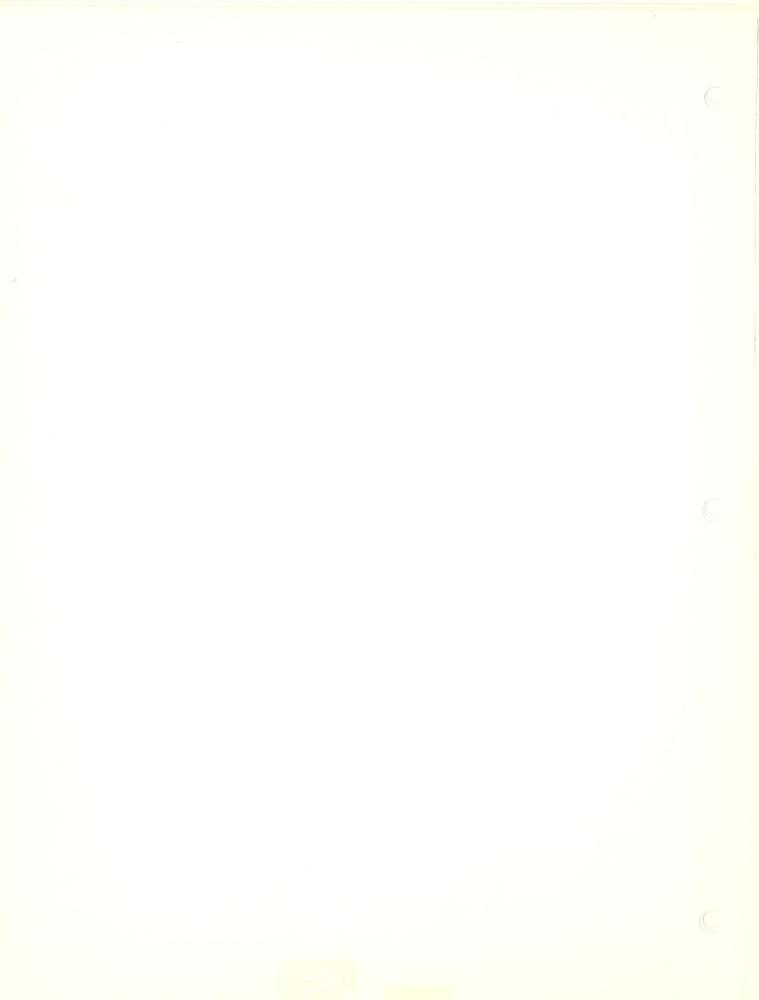
ACCUMULATED RAINFALL & RUNOFF IN INCHES

RUNOFE IN CUBIC		ACCUMULATED RAINFALL RAINFALL INTENSITY IN	INCHES PER HOUR 10020AM
2 65-5 65:3- NO RUNOFF	10:34 2 .02 .03 .14 [1:8]  10:34 2 .03 .14 [1:8]  10:41 6 .17 .09 .90  10:54 7 .6 .11 .9 .90  10:55 3 .47 .07 .210  11:40 3 .47 .05 1:10  11:40 19 .24 .05 1:10  11:40 19 .24 .05 1:10	TANA OF THE STATE	SAINFALL INTERSITY 1200 (NOCM) NOOPM
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1	UARY 20, 1935 400PM
UNITED STATES SOIL OF THE SCALE	te improit		SOO!  ACCUMULATED ANAFALL 106  FEELD "C" 605E)  6500PM





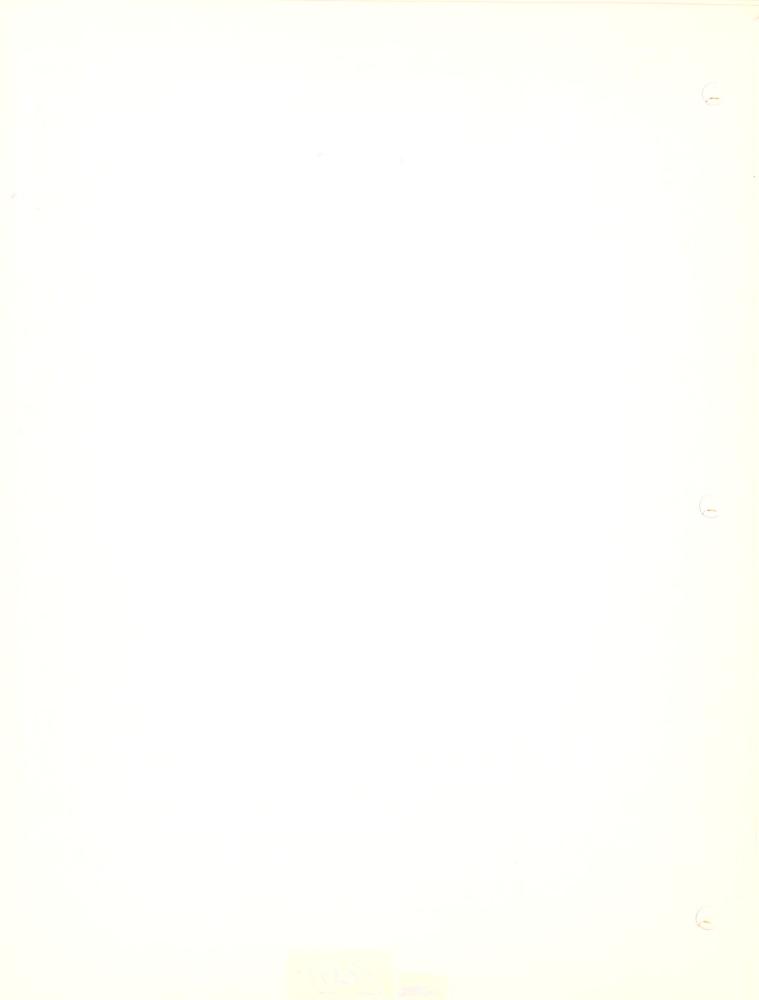
RUNDEF IN CUBIC FEET PER SECOND	RAINFALL I	D RAINFALL & RUNUF INTENSITY IN INCHES	
0 00		•	72
	-		The second secon
11/4 2001 10/2 10/2 10/2 10/2 10/2 10/2 10/2	© 1100 SOIL		
	9	ì	
	Atn o		N
3 4 4 8 8 4 4 4 8 8 9 9 9 9 9 9 9 9	2 12		000
and the control of th	PAGE PAGE PAGE PAGE PAGE PAGE PAGE PAGE		
	G 73		
	T STA		
	110N		
, E			* * **** * * * * * * * * * * * * * * *
100 pm	103		
	***		300
\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	win.		0
E- 1-1-1-1-1-2-2-3	.65	}	
The state of the s		=======================================	
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.30		7
2	8 8 8 9		Assam 800
			5
		1 1 5	00
			STAINT
16			\$ X
			4
			ARCH 4, 1935
			SW = 1
			900
			<u> </u>
		1	
2 2			200
(h 4			00
French de Cover de Co			
Are in the field (10.)			3
to the first the first transfer of the first		Hara III	
In (In.)  In hours)  In hours)  In f area  Ive (percent)			7.5
SOIL SOIL SOIL			200
ACCHAINTER STORY			00
To a service the service of the serv		- Figure	SAL NOA
TO SET THE SET OF SET O		200	E M
FERRITE OF AGRICULT  Soll CHISTAN STATION  MARCH AND CHISTAN STATION  STATE S OF PARTIES IN OF AGRICULT  SOLL CHISTAN STATION  TIAN, TEAN  MARCH AND CHISTAN STATION  STATE S OF PARTIES IN OF AGRICULT  SOLL CHISTAN STATION  TIAN, TEAN  MARCH AND CHISTAN STATION  MA			ACCUMULATED RAINFALL 135
Lin. 14  Lin. 14  Lin. 14  Lin. 14  Lin. 14  Lin. 14  Lin. 16  Palicy  Ling  L		0.334	33
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3.4	( )
The most view of second of the			103
Sand France (12)  94 2.7523  94 2.7523  1.0 16 2.16  1.10 1.24  1.25 225  2.25 225			ACCUMULATED RAINFALL 135



M a 000	T T (2)	7 2 6,10 Min. In. 7 2 6,10 Min. In. 7 10 2 2 0.0 0 10 2 3 0.0 0 10 3 10 0 10 10 10 0 10 10 10 0 10 10 10 0 10 10 10 0 10 10 10 10 0 10
12 00		74. C-12 2.46 0.50 4.28 177 774 177 774 177 174 174 175 176 176 176 176 176 176 176 176 176 176
S Q		7.54.
000		0.3-2 7.5% 0.39 1.7 - 63 1.7 - 63 1.7 - 63 1.70
00		The control of the co
7 00 A.M. w. Av 2,1935		

.

7



RUVOFF IN CUBIC FEET, PER SECOND	ACCUMULATED I RAINFALL INT:	RAINFALL & RUNOFF ENSITY IN INCHES PEI	IN INCHES
RUIVER IN CORP FREE FER SECOND	O O O		1 HOUR
	7		
			N. Committee
			2
			4
The state of the s		-constant matter :	4.
	· · · · · · · · · · · · · · · · · · ·	k & [	
Comment (12)	<u> </u>		
100 m			2
			2
			000
		1	
	P 4 12		
7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	22 SOIL SOIL	E	
	Se man		
	Shiva Bain		
0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ATTION OF HE		0
	24 72 ==================================		
4466664888666	Produi		
	200 See		
11.00 21.1.00 2	\$ 5 S		
	ž		
9100 9100 9100 1100 1100 1100 1100 1100	19 81 93 X X X X X X X X X X X X X X X X X X		三三菱 三三
			7 000
~ 2 2 2 2 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 5 4 4 4 5 5 5 5		2 3
			7923
1.30 1.41 1.47 1.49 1.49 1.49 1.49 1.49 1.49 1.49 1.49	In. 1.18 1.20 1.27 1.32		
		111 1 11111 11111	
	1 8 8 8 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
	10000		3
			2
Linear Long.		Processor and a separate service for the service of	
			10
		9	A CONTROL COOK
dest been  dest two boars  temporatis and A sin.)  soil approves (arcoost)  soil be no virus ([arcoost)  antinum  over type  bright (ft)  dott has outstwice ([arcoost)  bright (ft)  dott lies (time per arce)  femeris  control  femeris  bright (ft)  dott be act outstwice  femeris  femeris  bright (ft)  dott be act outstwice  femeris  control  soil outstwice  computation by F.F.C. data  computation by F.F.C. data	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		JW10
data bagan dain to houses apparentle each consumpression of the each tipe. Describing the house the each tipe to the each tipe tipe to the each tipe tipe tipe tipe tipe tipe tipe tipe			Š
The born - I want to have the born - I want to have the born of th			- T
to outline per true per true (per tr			
The soil of the so			8 -
acre)		T-1	
NO B HISTORY			
Frod Co. 20 Co.	7.2.5		124
MARY, 75 RETURN (Oak)  0.043  0.043  0.043  0.043  0.043  0.043  0.043  0.043	77 0		8
HE HAVE THE THE THE THE THE THE THE THE THE TH	3		7 7
Rare -28 11. 62 89.5 % 7. 40 10.000  Pare -1.000  Pare -1	0.5.7.	1 V.	7.
1.28 1.28  Errit Bed .  Errit Bed .  1.29.514  7.505 7.416  [(ad) ] Bare  ((ad) ] Losso  1.003 10.000  1.003 10.000  1.003 10.000  1.004   Fridance   Frid		1 158 1117	
CCC STORY		1 4:50	
### 4-28 4-28 4-28 #### 10	22	1 22	75
128   4-28   4-28   1	5.75 9.0.3.44 0.3.45 17.0.3.45	123	23.7
double bours   428 428 428 1	1	103.4-103.9	2. 01
56	***************************************		



### COND OF CORE WILLIAM STATE STATES SEED SEED STATES STATES SEED SEED SEED SEED STATES SEED SEED SEED SEED SEED SEED SEED S
THE CONTINUE AT PORTURE AT THE ACCUMENTATE OF ALL O
SOLL ON ADVITE STATES  6.5-4-0-56-7-  (P9-6-76-7-
SOLL ON ADVITE STATES  6.5-4-0-56-7-  (P9-6-76-7-
SOLL ON ADVITE STATES  6.5-4-0-56-7-  (P9-6-76-7-
65-4-0-567-  65-4-0-567-  65-4-0-567-  65-4-0-567-  65-4-0-567-  65-4-0-567-  1001. SAMTI'R INDIVISE STATICS  1100. WITH IN THE TAY  1100
65-4 0-56/-  65-5 0-56/-  65-5
MENSITY  MACCUMULATE O RAMMALL O RAM
ACCIMULATED PANNEALL C  (P-4 CACE)  (P-4 C
ACCIMULATED PANNEALL C  (P-4 CACE)  (P-4 C
ACCIMULATED PANNEALL C  (P-4 CACE)  (P-4 C
ACCIMALLATED PANAMALL C  (P-4 CACE)  (P-4
MENSTLY  ACCUMULATED RAINWALL GENERAL GRACE)  (S.4-0.46).7  (D.46 ACE)  SOIL ON HENTER ELECTRICAT STATON THAT, TEAN THAT, TEAN ISLAT GENEY 3, 11/2)  LATOR 240 .01 .01 .02 .01  12.11P 240 .01 .0 0 0  12.11P 240 .01 .0 0 0  13.2 .00 .01 .00  13.2 .00 .01 .00  13.3 .00 .01 .00  14.2 .00 .01 .01 .02  1500 .01 .00  1600 .01 .00  1700 .01 .00  1800 .01 .00  1900 .01 .00 .0  1100 .01 .00 .0  1100 .01 .00 .0  1200 .01 .01 .00  1300 .01 .00 .0  1400 .01 .00 .0  1500 .01 .00 .0  1600 .01 .00 .0  1700 .01 .00 .0  1800 .01 .00 .0  1900 .01 .00 .0  1900 .01 .00 .0  1000 .00 .00 .00  1000 .00
ACCUMULATE RANNALL  (P.4 6ACE)  (P.4 6ACE)
ACCUMULATE RANNALL C  (P-4 6ACE)  SOIL ON INVATER EXPENSION STATION  FRANCE PLAN CACE I  (P-4 6ACE)  (
ACCUMULATE RANNALL C  (P-4 6ACE)  (P-4 6ACE)  SOIL ON INVATER EXPENSION SANOR  SOIL ON INVATER EXPENSION  SOIL ON INVATER EXPENSION  SOIL ON INVATER EXPENSION  FAIR OF THE TEAM  (C) UII. II. II. In. In. In.  (C) UII. II. II. II. In. In.  (C) UII. II. II. II. II.  (C) UII. UII. II. II.  (C) UII. II. II.  (C) UII. II. II.  (C) UII. III. II.  (C) UII. II. II.  (C) UII. III.  (C) UII. UII.  (C
ACCUMULATE RANNALL C  (P.4 6ACE)  (P.4 6AC
2011 GP STANTION 1   1   1   1   1   1   1   1   1   1
Lin
DESIGNATION IN THE PROPERTY OF SAME AND
WITCH WITCH S
9 2 2 9 9 8 8 4 8 9 2 2 9 8 8 4 4 8 9 2 2 9 8 8 8 4 8 9 2 2 9 8 8 8 4 8 9 2 2 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
3 8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
(0)
00 H 00 00 00 00 00 00 00 00 00 00 00 00
Accounting the matter of the period of the matter of the m
Francisco for the personal forms of the pers
Rand Sira Fresholding Marrian Covers Lyin
* - 3 C E S D C C C S D C C C S D C C C S D C C C S D C C C S D C C C S D C C C S D C C C C
A BAIT (IN) A BAIT (IN) I LIO (NUTE) ILIO (NUTE) ILIO (NUTE) INC (I FERN) INC (I FE
S U
UNITED S  UNITED
UNITED STATE OF STATE
CONTINUE STERM HIS CONTINUE STER
Solution of the state of the st
1
(0.5.4) (0.5.4
0.5.8) 0.6.8) 0.
(0.5.4) 0.5.44 0.5.45 0
0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  0.5.9)  1.7.9)
0.5.43 0.3.44 0.3.45  (a.5.43 0.3.54 0.3.45  (b.6.43) 0.3.54 0.3.55  (b.6.44) 0.3.55  (b.6.44) 0.3.55  (b.6.44) 0.3.55  (b.6.45) 0.3.55



RUNOFF IN CUBIC FEET PER SECOND	RAINFA	LL INTENSITY IN	INCHES PE	R. HOUR
Q 40 G G G	¥ 0	63	W	4
1				
	<u> </u>			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
100 S	E			
500000000000000000000000000000000000000	CONCENTRATION EXTRICIDAT STATION TILLI, TRANS Rain of May 15, 1035 Bain these Field C			
	da o			
9 9 9 9 8 2 5 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	HOSEIVATION EX TYLER, T Rain of May Rain dage:			
3 3 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3	HAND THAN			
μ ω ω ω ω μη	TEXAS  15, 1935  Pland C			
1. 10 0 0 1. 12 1.	STAT			14
A state of the control of the c	2			8
		)	Groupin Companies Companies	
	106	printingualities	second models of the second	4
The transport of the Control of the	Same of Street		COMPANIES CO.	
				0
i i i i i i i i i i i i i i i i i i i	N		3	
		Cun.II		
		22		
		160	3	
		2 2 2 mm	3	
		3.06.	3	2
<u> </u>				
		1		
		Į.		
				-61
				900
Aran (sores)		\$		
mn (cores).  and (cores).  data bagen.  data bagen.  data bagen.  percent of mrea.  percent of mrea.  li (ca)or tyre).  baight (ti.)		1 5		
		05675		
Per		3-3		
or o				
Cons per sore)				
United the Constitution of				3
				33.
### (GOTAS)		5		NHUOS 8
2.5.g* G.3. 2.7. 1.77 1.00 Eny 14, 35 Le Enca C 3.5 Enc				
G.3.gb  1.73 1.09 1.73 1.09 1.001 1.73 1.001 1.0		\$ 25.		
G.B.g.D G.B.g.D L.73 L.73 Booke S.SOX S.SO				97
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		100		100
the state of the s		7 4		



RUNOFF IN CUBIC FEET PER S	EGOND		RAINFALL IN	TENSITY IN INCHES PER HOUR
2 2 0	0 0 0	- N N	4 3	0 - 4 3
				3
				3
				WIENS)
A real of the second se				N N
			BOOK STATE STATE OF THE STATE O	
	The state of the s		Nandadorenania in 1	
1			2015.4 2015.4 2016.5.14 2016.5.15	3
5			5, 5,	9 - 1
				1 100
				003
		5:145 5:145 5:145 5:145	0 0	
		E B		
			PRAID GEZON	
	1.67		N N N N N N N N N N N N N N N N N N N	No.
A	1 6 6 6 6 6	.03	Flatd C	
	3.60	3.00 1.00 1.00 1.00 1.00 1.00	035	
	0 0 0	6 6 C C C BE		
			7	
		# 0 B B 7 F 2		
		Area (nores) 7.94  Preceding Main (11.) 60  date begin (11.) 60  Livia (11.) 60  Boli (11.) 60		
6.5		as (norms)  avading Hain (1h.)  dara bagai  dara histon (bours)  myerature (aar & min.)  paroutt of area  pa		
nperalt S		thour (fine		
UNITED STATE SOIN H JOIL OO THESE STORM NO		in.)  h mi		
NO SIA SO		7.04  7.04  July 4.  10.)  Max. W  Marsin  11.)  12.00  13.00  14.00  15.00  16.00  16.00		
Day of the second of the secon		7.94 .60 July 4. July 4. July 4. July 4. July 6. Guak)		
NSER NSER		D C L 3		
UNITED STATES DEPARTMENT OF ASSICULTURE SOIL CONSERVATION SERVICE H. BE NUETI. CHIEF. COIL CONSERVATION PURILIEST STATION TILLA, TELLAS  STORM NO		7.94 5.75 1.73  .60 .64 5.25 1.73  .10 1.84 5.75 1.73  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.84 5.75 1.75  .10 1.85 1.85 1.85  .10 1.85 1.85 1.85  .10 1.85 1.85 1.85  .10 1.85 1.85 1.85  .10 1.85 1.85 1.85  .10 1.85  .10 1.85 1.85  .10 1.85 1.85  .10 1.85 1.85  .10 1.85 1.85  .10 1.		
NI OF AGRIC ON SERVICE I. CHEF. PAINSHT STAT PAINSHT STAT		1.73 1.73 1.73 1.73 1.73 1.73 1.73 1.73		
AGR RVICE EF.		1.73 1.73 1.43 1.55 201y 5.50 Ecopyanes		
TI CULT		.03 .43 .445 .445 .444 .2444 .		
÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷ ÷		*35 ***********************************		
6 6		E		



			ACCEMULATED FANTAL	3 7 2 5 7 2 5 5
	RINDEF IN CUBIC FEET FEE SE	CONO	BANFALL PITE ST	
			1,8	
				31
				500
			-:	
			1.3	
			The state of the s	
	The state of the s			-
	The state of the s	-36		-1
	The same of the sa			
				=2 13
	The state of the s		**************************************	
			THE PLANT OF A 7 .	
	The second secon		7-10-77-17-18- 19- 19- 19- 19- 19- 19- 19- 19- 19- 19	
		- Committee of the Comm		
			1 1	
		· beneath of the second		4
		Address Address		===
		All Marian		
		The state of the s		A-2- La
	The state of the s	Page 2		
		2		
				_
	1 - 0			
		The state of the s		1 7 - 51
Pro Bro	The second secon			
Description of the control of the co				
Try to the state of the state o			+:41. 1:11 :-:11 1	1
Transfer of the state of the st				1 -
oras (lr				
(in.)				
7.000 4.12 000.7 4.12 4.00 4.00 4.00 4.00 7.00 7.00 7.00 7.00				*
72. 72.	1			3
0 0				
.75 .75 .75 .75 .75 .75 .75 .75 .75 .75		~ 0 0 ~ 0, 0 0 0 0	The second second	·
C	7315 731066	11:03 11:03 11:03 11:03 11:03	114	1
75.				- Parker
.03 / 0 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	- α υ w w - h υ .	30 00 00 00 00 00 00 00 00 00 00 00 00 0	land a	1
i i	3 3 49 14 6 3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	10 10 10 10 10 10 10 10 10 10 10 10 10 1		
e Gu Un		101 101 101 101 101 101 101 101 101 101		
	1.00	10.00	0 n	
pm vm			144	
23	77.60	\$ 10 0 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~ .	301
by			1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	
SIO SIO			2.1	
TED OF THE B	the state of the s			
NO ST.	9 - 13 11 - 13 11 - 13 8 - 13 8 - 13 8 - 13 8 8 - 13 8 8 - 13 8 8 - 13 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7158 7158 8143 8143 8143	7 7 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
S. H. LATE	8 6 8 8 8 6	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SHE H	N 2 0 0 0 0		K	
SER SER			o la	
Out Out	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	20		
by Loba		105	te te l'illiani	
SET CHILD		100		S <sub>1</sub>
A DIVE				
STAT STAT	C 44 C 33 C 24 C 5	1.00 H		
DUNITED STATES DEPARTMENT OF AGRICULTURE  1.73  1.47  50L CKSSEVATION SERVICE  1.47  50L CKSSEVATION SERVICE  1.47  60XL CONDITION TEXAS  51.55 Oct. 22, 135  52.55  53.135 Oct. 22, 135  53.135 Oct. 22, 135  54.55  55.50  Feet by M.P.C. date. by O.C.M. da	10		2 6	
Y'S A				
56		7.14.7		
		and the second s		

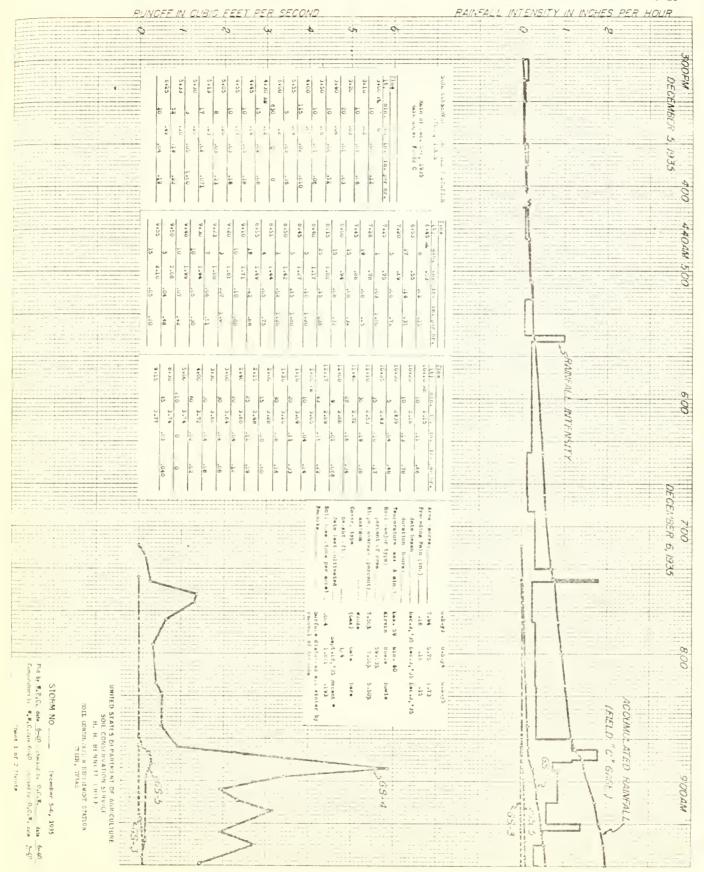
winter by lowersh of bereade

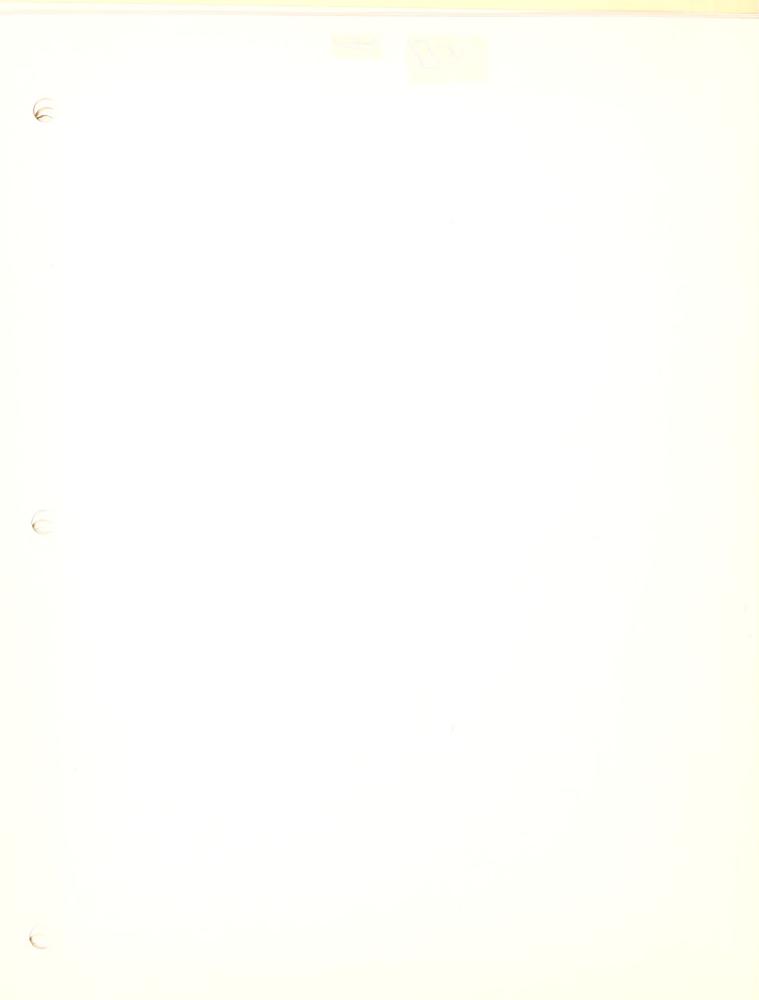


0 5+44 FW 7.57 7.12 A\$17 Art here 1114 7146 7144 9517 1160 4.54 3 the Por life . 40 S ACM WATOR 6.5.0 000 100/W 10W 305.19 F. 30 F-6'5-3 Ö 65-5 P N 21+15 7100 10 14.04 11.19 62.6 RSAR 0.04 8513 8210 6773 11:34 859 8243 : 14 2412 9112 4114 1.66 120PM Frequeding Nain (in.)\_\_\_\_ duration (hours) .... UNITED STAILS OF PARTMENT OF AGRICULTURE
SOIL CONSERVATION STRVICE
H. H. BENNETH, CHIEF,
SOIL OUTSPART A EXPLINENT STATION
ITDJA, TRANS STORM NO. 2.84 Nowember 9-10-11, 1935 1.75 1.73 .12 .13 5 ||.cv.6; 135 Nov.6; 13 3.50% 507 \*Bow 1 m



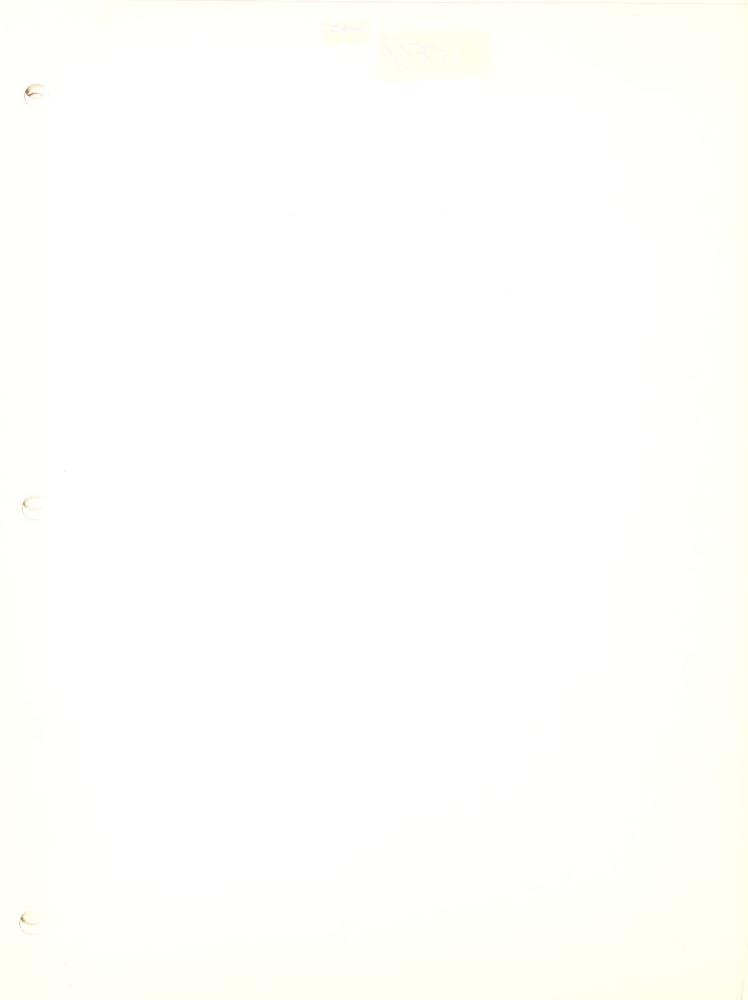
ACCUMULATED RAINFALL & RUNOFF IN INCHES





ACCUMULATED RAINFALL & RUNOFF IN INCHES

		ACCUMULATED RA	MINFALL & RUNOFF IN INCHES
R.	OFF & CV5.0 FFET PER SECOND	RAINFALL INTENS	SITY IN INCHES PER HOUR
			3
			3
	The second secon	1	
	the second secon		
		11177 11 7.11.	
	4		
	The second secon		<b>1 2</b> / <b> </b>
ELT-LITTE LITTLE			
	į		
			3 5
			3
			2
	1		
<u> </u>			
		****	
3			
Eni marin Enima			2=
E			
Ditrimpilli			26-11-25
feet and the second sec			93
	a constraint of the second of		
TET 1711 12 TET 17 TET 17 TET 17			
T			
1	, , , , , , , , , , , , , , , , , , , ,		
	A CONTRACTOR OF THE CONTRACTOR		
			1 3
	The same of the sa		
E:			
			7
- Pol			
otati S			
IOI III			
UNITED STATI SOIL BUILDING SOIL BUILDING SOIL SOIL SOIL SOIL SOIL BUILDING		er verdenspråkelser amskranspråkelser og deter re djennen til stemmensemmen skrive stemmen av deter djennen til stemmen skrive og deter djenne skrive skrive og deter deter skrive skrive og deter skrive og deter deter skrive skrive skrive og deter skrive og deter skrive og deter deter skrive skrive skrive skrive og deter skrive skrive skrive og deter skrive og deter skrive og deter skrive skri	2 2
NO ST.			, , , , , , , , , , , , , , , , , , , ,
UNITED STATES TO CADMENT OF A HIGHE SOIL C A LEVATION SHOWLE HE HE HENTELL, CHILF SOIL DOSCHAPA AL HIGHEST STATEM STORM NO			CENTULATED CON
AARI H H H C C C C C C C C C C C C C C C C			
TO ARTHUR HE OF A BATT ATTOM SHIP.  BETHER IT, JILLEY TO WAR OF TEACHER TO CARRY TO			
I VATION IN INTERPRETATION INTERPRETATION IN INTERPRETATION INTERPRETATION IN INTERPRETATION INTERPRETATION IN INTERPRETATION IN INTERPRETATION IN INTERPRETATION INT			
1100 FT 100 FT 100 FT 2			
1 00 H		,	
		***************************************	
A JACOUL A J			
UNITED STATES FOR ARRIVATION STRUCE HE BETWEET STATES AND STRUCE HE BETWEET STATES AND S			
Add 35			
7 7			and the second s
THE STATE			
HANDERS TO A HOLLIUME I VATION SERVICE HENNETT, JHLE  IN TEAMS STATION TEAMS TEAMS TEAMS TEAMS TO ALS TO AL			ACCUMULATED SAMEN E 377





Number

1936 DATE

Jan. 18 Jan. 18

Jen. 7

Jen.

Jan. 29 Jan. 29 Jan. 29

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

Cata 7", good, soil hard, molate not it in the proposity of rallow, loose, dry, subsoil moiet. Sallow, losso, twated tought, moist. Boil medet Modestarstarstaller Fallow, Loues, dry 10,000 th 11, 1000 Moods in Inefecti moist, "interwoil molet, cubecil molet. Woods,bars,sparss, \$1550 clann,4st. Fallow, soil losse, sry, subseding. Fallow, loces, dry sewheel medate Woods baro sparsoischooll Malat. Fallow looso, dry subset dang. Woods, bars, sparso, soll motst, and sto Corn 1-2, goods, substant motals. Pallow, losso, dry, substall motat. Woods, bure, since froll intist. Good stend oats, subsoll inter. Toode, bare, sparso, subsoil distate allose, dry subsoil done, dry subsoil done, oods, bare, slwras saultell Litat. Tools, ours, sparso, Buildell ablat. 'ullow, looso, dry, subsoil moist. allow, loose, dry, saubsell milet. -Liosduw Rood stand onte, Subsolly Autat. Onts 7", good, soil hard, molate. SHEETS Woods, barn, sparse, subject moist Faller, looso, dry, subsoil moist. . 1936 COMPITION OF WAVERSHED Month Jan. Feb. Mar. &Apr. Moods bare, appress, tou OF SHEET (tons per sore) ow installation) •0056 (3.8) 0 RATHWALL MINUS
BUN-OFF 6tp=0 6090 (17) PROJECT SCG Experiment Station, Tyler, Jones RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Record lost (14) MAXIMUM RATE Time No Eate Cb. ft. sec. (3.5) 0.001 0.011 (14) It Dox STRO STRO ME O MIRO MIRO MIRO NRO RRO OHE NEO NTO MINO MINO NESO MESO MRQ MRO NRO MRO TRO WRO ERO श रख 988 222 걸걸걸 82 82 83 的的影 2222 5 5 5 おきば Tampheavons (degrees F) ਹੀ ਹੀ ਕੀ RE S 직직적 299 500 553 3333 ನನನ 67 333 555 222 233 233 EEE 0,00 M minutes 1.40 00/14 0.14 90.0 0.38 9770 Ê MAXISTER SPERSTER finition (inches per lever) 2000 0-80 000 0.12 0.52 0-10 2,56 (C) 1,648 0.72 0009 1,92 0.3L 1,20 0.43 (8) (\*ons 70\*) (\*ons 70\*) 2170 FS:2 K 2 2 2 0.27 0,00 2000 2000 57. 0.69 0000 0.0 0.02 0,65 0.07 0.07 0.08 0.03 0.02 800 8 Duration (minutes) 9 25 310 250 180 30 190 8 230 8 500 215 1,3777 100 7=00AM 6:00PM 12, 38FM Lish SAN 9,09Fu 7.12AI 6221AN 10,0037 12 122FM 3 COANK 1.28AM Regan (hour) (9) Gage No. -F-C D-314 5-F-4 -K-Y-2-Fb 2-F 2-Fb 2-Fb P-Lab 7.025 2.11) E. H. 7. 3-0 1.726 3-4 -Fit 2-FL 2-FJ 2 ij 9 7,936 5,747 1,726 7-936 5-7-7 1-736 7-936 5-71.7 15.9% 1.7% 1.7% 7,936 5-747 7.936 1.726 7.936 5.747 1.726 7.936 5.747 5.726 7a936 5.747 7.936 5-747 Area (active)

MJ IS

Feb. 26 Feb. 26 Feb. 26

Feb. 13

Yeb. 13

999

Pebe Peb.

Feb. Peb. Pah.

MAG

Mar. 2 Mar. 2 Mar. 2

Mare h Mare h Mare h

MITE

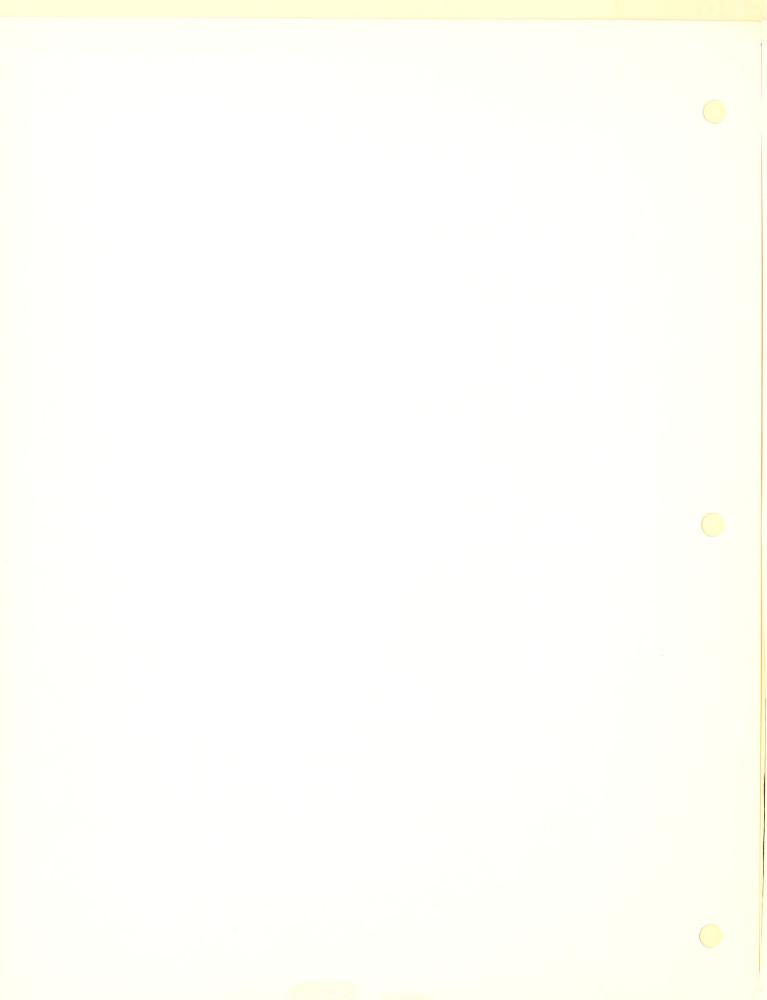
Mar. 24 Mar. 24 Mar. 24

Mar.

สสส

∞ cc oo

Apr. AUL



7.936

Apr. 28 Apr. 28 Apr. 28

Arm (enre)

Number

DAM

1936

7.936

MIN

May 8-9

5-47 5-747 5-747 5-747

ココニコ

May 9-9 May 9 May 9-10

7.936 5.717 1.726

Hay May

### UNITED STATES DEPARTMENT OF AGRICULTURE BOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

Corn 16" good moist, newly valid.
Fallow, orusted, moist, subsoil moist Corn 30", good, noil wet, bivelode Do. Do. Boll wet, subsoll moint new lyated. Verylittle lear litter soil noist Corn 16", good, soil Edittiffe Soil moist, subsoil moist.
Corn 3%, soil wet, subsoil wet.
Pallows, loses, dry; subsoil moist. Soil days enhant day
from 5-61, my hores genhoot day.
Cotton 8-10", noor longe, day. Allow, loose, dry, subsoil moists Soil maist; subsoil modat. Corn 3's loces, maist, enback met. Fallow, hard, dry, subsoil maists Soil moist, subsoil moist damp. Corn 5-c', within a subsoil damp. Cotton 8-10", poor, long, moists allow, loose, dry , sanbsoil moist. Attle underbrush, subsoil moist. Fallow, hard, moint, subsoil moists. Willow, hard, moist, subsoil moist. MONTH Apr. My.Jun. A Jul., 19 36 wet, subsoil met. woint butle let litter, soil Soil moistssubsoil maists COMPINION OF WATERAURO Corn 3', soll O 000 ô SHEET Sur Loss (tons per sore) 1.017 14-4,76 (18) LADMEALL MERUS RUN-orr (Inches) 3.212 3-137 P.179 (17) PROJECT SCS. Experiment Statt on Jyler Tooms RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Renord 7131AE 11,09 12:133 TiSa (16) MAXIMUM RATE Tan to Cu. ft. sec. 8.10 170 0.83 12.14 No 0.0 (18) 1.894 0.158 2.082 1.629 1.868 0.151 Amount (Inclum) 34 10:11P.11.11A. LISTEN SIDEAM BROSAM 12,174,8,3.14W (1.1) No report No report No report No record Ho Renard 6153AN NRO In Box ME NRO MRO MRO NYRO MEO Began (hour) (13) NRO NRO NRO NEO MEO MRO MBO MRO THO ME Olim 0 000 333 232 33 3333 33 उठ उ 233 28 28 53 252 233 \$33 TRAFFICATIONS (dagrees F.) 833 222 23 2222 22 祖祖祖 33 33 33 れれれ RKK FFF 18 coloustes 30 miluster (Inches per hour) (lacker per bent) 1.60 0.57 17-0 0,50 -3.48 0.16 रूप 0.56 -84 90 2 MAXISUS SETSISET 2,00 7707 1.23 0.76 0000 0.32 1,00 9500 ŝ 2 # minutes sches per born) 7,16 2.16 3,12 0.96 0°34 1.20 1,03 2.04 .36. Ê 3.10 \$ 7 X 3.88 0.15 2200000 0.40 0.70 0.70 0000 01000 A monat 14.00 2,2 020 5.00 5.08 0.05 000 24% 15°0 5.80 Puration (minutes) 001 808 115 路を記述 32 200 153 15 33 ê 2-21-22 6:11FN L:26FN 3:24.P 12,17,4 SalaBPM 1435PM 5=3344 L: 30LV 3,09PM Began (beaut) 8 Clags No.

7.936 5.71/7 1.726

May 18 May 18 May 18

1.726

100

May 8-9.

7.936 5.747

44

83

वेत

1.726

83

विश्व

12.38

គ ខ ខ ខ

333

7-936

23

33

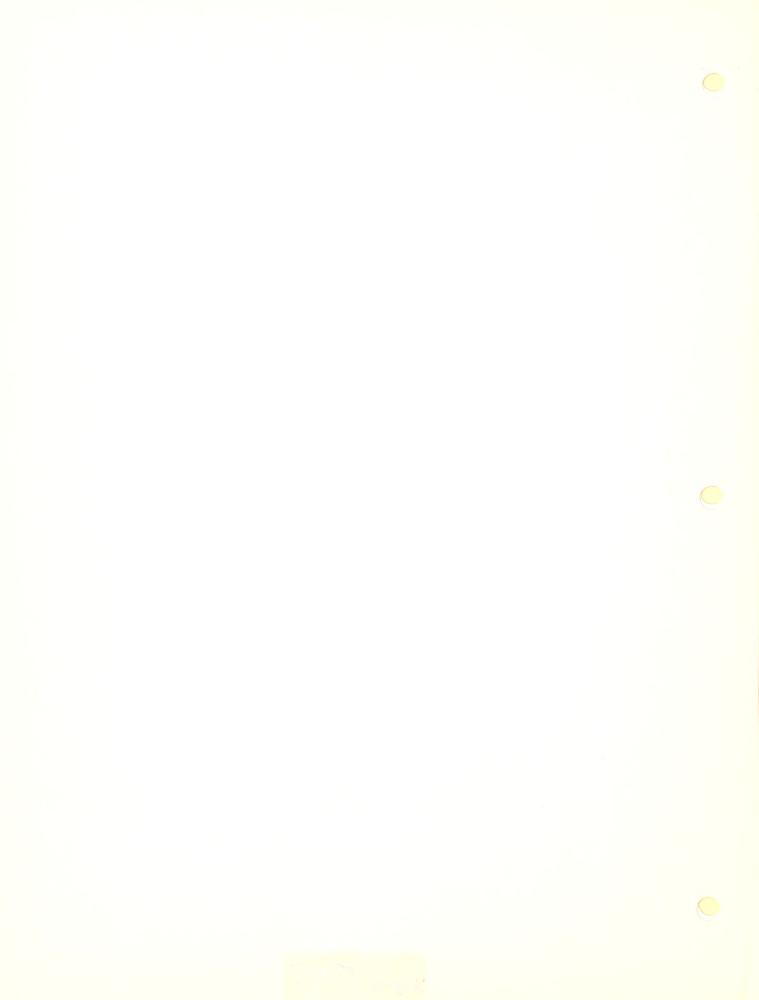
7-936 5-747 1-726

ន្តន្តន

May Vall

1.726

5-741



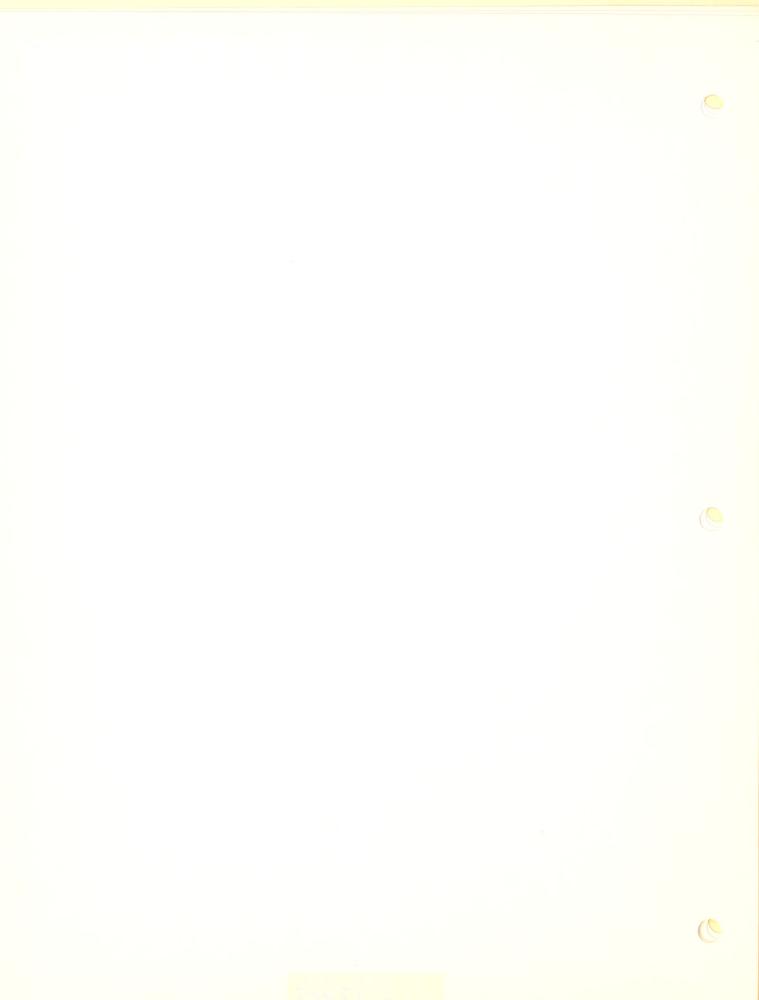
### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

MONTH Jule Aug. & Sept. , 19 36

40 SHEET 3 RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Soil motet, subsoil motet. Fall w.orrsted, motet, stroil motet, Cotton at DO , estusiou, et st and pot Soil drys subsail dry.
Corn 5-61, molet, being long, and cotton 20", aparse, subsail dry. 9011 dry1 subsoil dry hard the state of state of subspecific dry light of subsumental subsoil dry. Greton 20", sparse, bulboil dry. 0.000 8011 dry; subsoil dry
0.742 Corn 5-6', moist baked, who; moist
3.931 Cotton 10-14", loose glacil moist.
0.335 Cotton 8-10", poor, soil loces, moiet Fallow, dry, loose, subsoil or wit, dry Soil dry; subsoil dry
Corn 5-61, wet, hard, subsoildamp.
Mewly oultiwated, subsoil didp. Soil dry; subsoil dry Corn 5-61, wat, lgrd, eubsoil damp Newly outtirated, 6453314 654p. suo-Soil dry; subnoll dry; und, unbgoll Corn ma' urassoil dry; Cotton 20", sparse, "Chbeckl'dry, Cotton 20", sparse, "Chbeckl'dry," Corn 5-61 soil moist, subrell after Cotton 20 separas, took soil dry. Soil dry, subsoil dry.
Foll wiry looms, wit oil dry supposil Soil moist; subsoil moletubsoil Corn 5-01, soil wet, hard, wot. RHEKTS Soil dry; subsoil drys Corn 5-6's moist, subsoil drys Cotton 20", sparse, loose, soil TON OF WAPERAIIED Soil drys subnoil dry 5 0,022 first Loss (lone per sore) 3.8 RAINWALL MINUS
RUN-OFF (tuchus) 1.27.0 2.053 1.665 1.683 1.531 (1.7) 12,12 12,12 12,04 11,26 Thm MAZIMUM RAVE (91) a to 0.027 0.71 0.475 17.72 0.457 14.20 0.749 0.34 Ou ft. sec. CN CN (18) 0,002 Amount (Inches) 9 E) 12:00 H. 1. 34k 11:574k 12:/374 11:574k 1: 29k Roded (hour) (13) 11t Box 11 Bot NRO MRO MRO NTO NTO NRO MRO NRO 042 Bagn n MR0 1130 MPO MRO MRO NRO NRO 0.00 MRO MRO NR0 NBO (13) TREFFERENCES (Jegotes F.) 世世世 222 ななな 222 ででで 222 れれれ 233 222 ででで 0 553 ででで 888 888 222 888 888 888 FFF REE CE 3 87 (C) (faction pur barry) (taches per borry) S:00 0-54 3.18 0.33 90.0 1.88 (10) a वा MAKIOUS ISTRAST 0.32 0400 1,008 4.80 0.12 0.76 3 2 ला 8 refragitor technic per bourt) 24.2 0.36 2010 2,16 1.68 00°9 0.24 0900 0,84 3 RADIOALL 0.09 Amonine (Inches) 3000 0 0 0 0 0 0 0 0.32 1,081 8 8 8 8 8 8 8 8 0.04 0000 0.12 9000 0.07 577 0.03 6 Puration (minutes) 85 2 Kg. 15 2 5 5 30 15 2 10 130 JF. 8 9105PM 31550 11130F# Ŧ 413257 111174 11271 Tar Cont 611 SPM 2 LOPA 2.115FW Lators 4 Rogens (hours) (8) 2-F-50 3-F-C 2-F-FD 1-F-C 3-F-A 2-F-E 2-F-A 2-F-FD 3-F-G 2-F 13, 3-F-A 3-F-C 57 2-P-43 1-F-C 2-F-17 3-F-C 1-F-C 1 D ST Ongs Na. 7.936 5.747 1.726 7.936 5.747 1.726 7.936 7-936 7-936 これから 7.936 5.74.7 1.726 7-936 5-71.7 7.936 5.717 1.726 2.036 7.936 5.747 1.726 7-336 1-336 1-336 A real 3 WATELBONISS Nember Burnang ê main. 250 MILL M-15 るはら matin - 1 きはら Sapt. M. Sept. M. Sept. M. Sept. 15 Sept. 27 July 10 July 10 July 10 July 13 July 13 July 13 Aug. 25 Aug. 35 Aug. 25 裙 July 22 July 22 Aug. 15 Aug. 15 Aug. 15 Aug. 23 Aug. 23 Aug. 23 July 5 July 5 July 5 PROJECT. 1936 DATE Saple

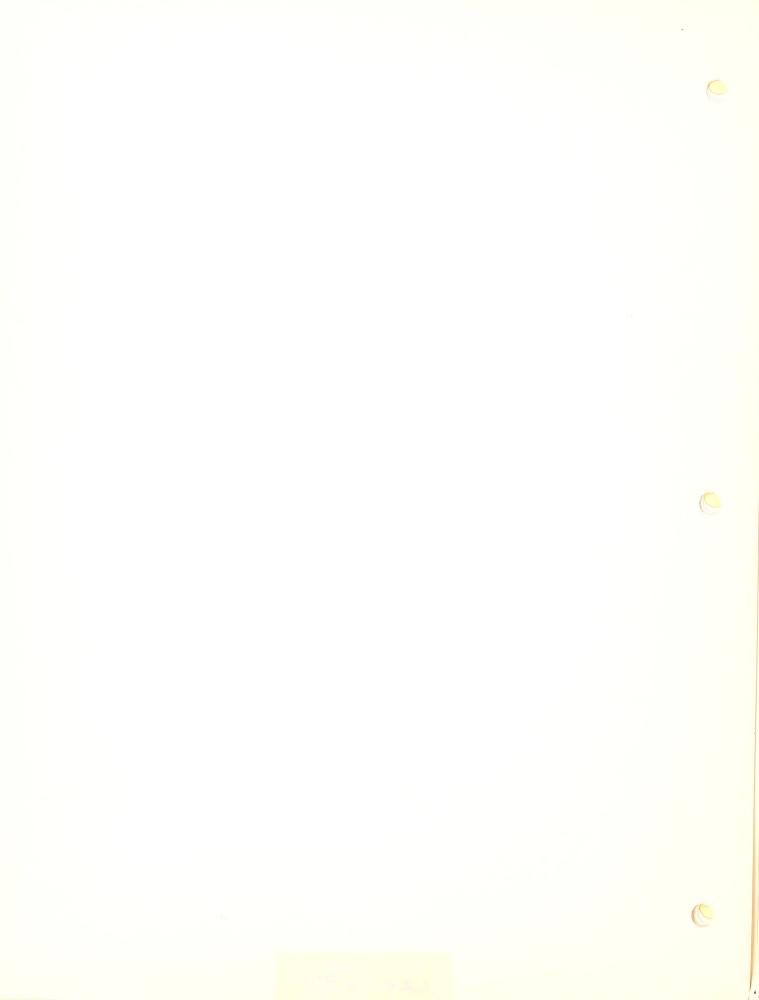


Ports 8, C, 8,-848

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

MONTH Bep. Oct. Nov. & Dec., 19.36

Soil moist, subsoil moist, subsoil Soil moist, subsoil moistainists sub Soil moist, subsoil mofet of polat Vetch coming up; Subsoil of polat Cotton, mature, soil moist, " " (1) 0.005 allow, mowly oultivated dry, autelia. Vetok coming up, erusted soil wel. Soil moist, subsoil moistabsoilet yetoh gocd amatod domp, subsoldet Onto up, Joil herd, met, subsoll met. Fallow, ornated, modet, Cube Adjate, Cotton 21-30", erusted, dry, custon 21-30", erusted, dry, custon. 0.00/Soll moiet, subsoil moiet hypsoll 0.315/hallow.soll moiet, world. would. 0.335/Cotton 21-30", mature, moiet, baked. Fallow, crusted, motat, with the cotton 21,-30", crusted, dry, diap. good, orusted, damp, wete fullow, locse, moist, subsoil moist. Mail moist, subsoil moisfubnoil 0.025 Cotton, mature, moist, subsoil wet. Wetch good\_erusted,damp, woteverland,loose,day,subsoil moist. SHEETH 0.017|Vetols, good stand, soil moist Boil moist,, subsoil, ablati, Soil moist, subsoil moist. Soil moist, subsoil moist 5 COMPITION OF WAYBBEIRD 3 OF 4 Jetoh ŝ SHEET Bitte Loss (toris per sorio) Ê RAINVALL MINUS RUN-OFF (Buches) 2-1488 1-950 2-033 0.930 2-339 (13) PRODUCT SCS EXPERIMENT. STATES, Johns RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 12,21 Ting MAXIMUM RATE 91 Pate Tate Pate Pate 1.31 11.17 1.24 No M N P Cu R 800 (17) 0.011 0.020 11:09P4 12:19AM 0.390 11:09P4 12:19AM 0.390 11:10TH 1:03AM 0.177 A month Endat (bour) 3 Silt Box 11t Box 11t Box NRO NRO Hegas (hour) MRO MRO NEO NEO NEO NRO NHO NHO NHO NEO NEO KEO 00 E NEO NTRO MR0 OLL N 0.1 3 1,8-50 39-43 Do. 000 000 D0. (Segreen F) 888 ध्यध्य 333 222 27.73 RAR 見り 印 5.2 17-17 82.66 52-63 000 DO. 00° 633 888 AAA 222 333 RRR 22 RR 22 (inches per hour) 0.08 0.56 1,16 0.36 0.36 1.72 0.08 0°18 0.01 MATINUS INVESTOR 18 minutes (Inches per tears) 1,996 0-10 2,96 1,16 0.12 1,000 0,12 0.30 0.08 â 6 infruites Inches per hour) 0.12 2,16 2,28 1.44 1,60 0.24 0.12 3.72 0.24 RAIMPALL 2,35 223 10.01 0-117 26.00 ត ខ្លួន 2°.73 2°.74 2°.21 0.02 Amount (Inchas) (2) Duration (minutes) 1740 21/1754 1030 110 150 3 105 97 2 8 310012 900 Sassav 1 8153AM MIOTION B150AN Saggrad 6100AM 7, 1044 11 chorn Hogna (freeig) Cle ps N , 4 44 1 44 2-Fb 2-F1 2-Fb 2-17 2-FL 8-P 되 育 P-M 1-C 0-0 0-0 8-12 3-1 1-C 1.c 1-C J-C 99 3-A 7 7 4 4 7.936 7.936 5.74.7 1.726 7.936 7.936 5.747 7-936 5-71.7 1-726 7-336 5-726 1-736 7.936 5.747 1.726 7.936 5.747 7.936 5.71,7 1.726 7.936 5.747 1.726 1,726 A rea (acuta) 3 WATERAMED ろけら mat in m=s きけら m45 44 m=15 Sept. 26 Sept. 26 Sept. 26 Oct. 6-7 Oct. 6-7 Oct. 6-7 00 t . 22 - 29 Move 2-3 Move 2-3 Move 2-3 Dec. 1-2 Dec. 1-2 Dec. 1-2 233 13 Oot . 22 . 2 Oot. 28 Oot. 28 Oot. 28 Nove 1 Nove 1 Mov. 23 Mov. 23 Nov. 29 22 23 1936 Septe Septe HOY. NOT . BOY. NG4 P EOV .



Porm 8. C. 8.-848

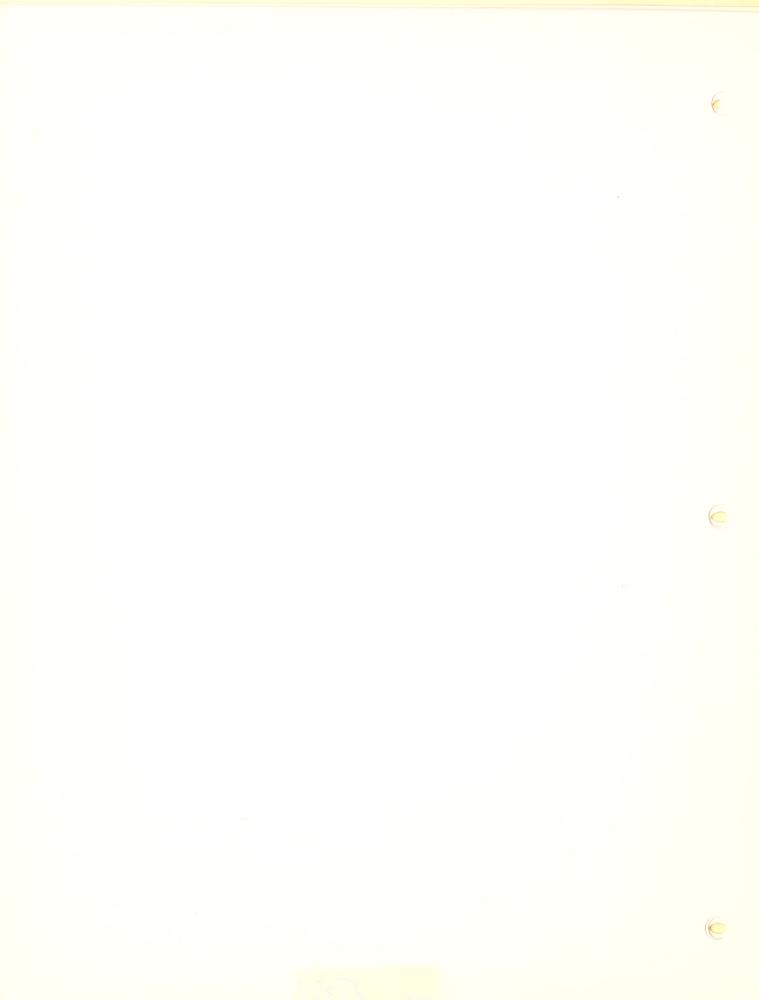
### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

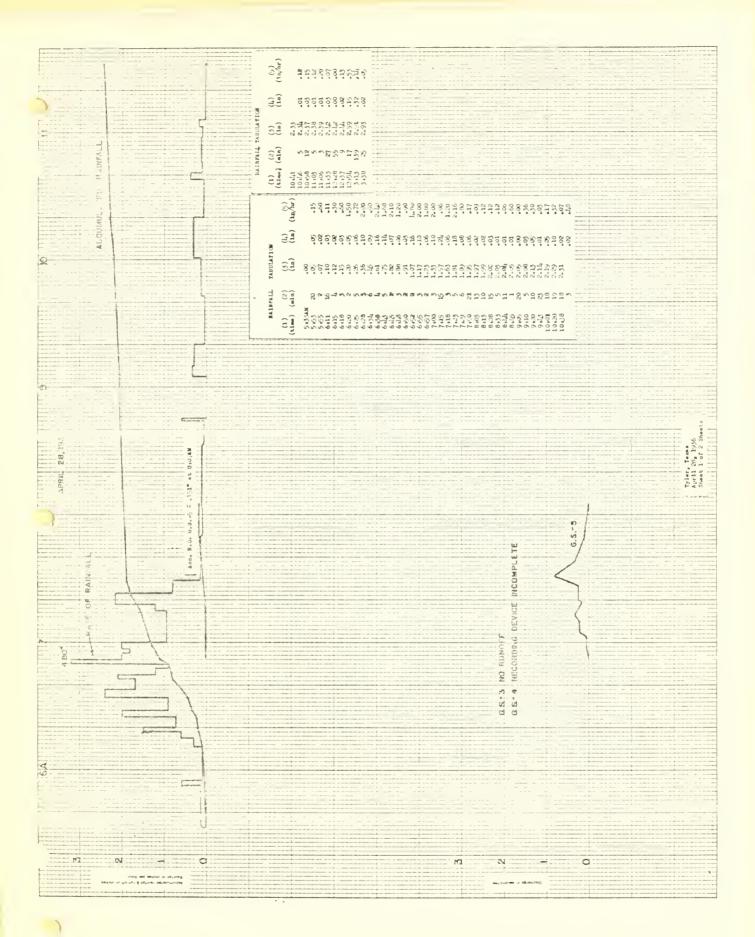
DIVISION OF RESEARCH

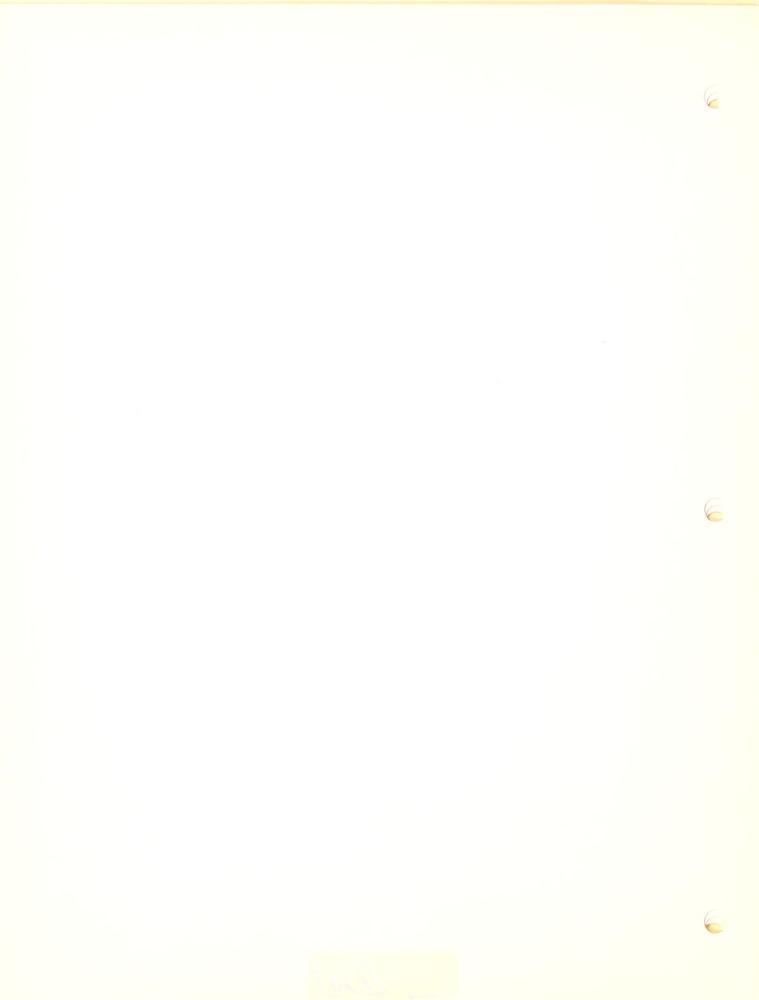
19.36

MONTH Deachber

Soil moist; gubsoil mut Voteb 2-3", good, moin mutmitted Soil moist, subsoil moist. Vetch 2-3",good, soil moist bubed! Cats up, soil comp't., sucietote Oats up;soil ocmp't,hard, subsoil Vetch 2", good stend, soil moist. BHEETB Soil moists subsoil moist CONDITION OF WATERANED OF 2 SHEET Vale 10. 10. Ve (tons per sore) 1.474 0°000 0°058 60000 4-301 T. tumo. (18) roat of 0.547 0.932 2.238 (17) PROJECT SCS Experiment Station, Index, Ferna RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 0.15 800512 0.35 11:06136 3.08 2.3813 1,779 6,56FE 2,90 8,15FE 2,90 11,007W 0,015 22,36AH 15,78 22,45AM 6136 inog trach in 2rly643 Time 91) MAKIMUM BAYS Pate Rate Cu ft, sec. 5.77 0 0 E 52 (11.5) 0.0k1 0.0k1 0.045 0-11/3 0-01/4 0-658 0.032 0.028 0.045 0.274 Loncourate other Кти-овт (9.1) 6415274 7 1.2PM 850074 8 50PM 101515747 2 57A4 210A4 4 20A4 11:00.24 8.35.24 11:00.24 2.3024 naceplete 5 30AM 18 19 N Ended (hour) 6,3014 7. JJo-una To Ex32AM Alt Box llt Box MRO (12) 0 634 KR0 CHI olamp. de \_os maremé recarding enge 15 Nos 7 at Project L. Nos 8 and 10 relater tor recard of the Nos 8 Nos 10 respectively 10 losts, clock atograde 10.209600 au.fts for rain Nay 8 remain Nos 8 remain TRMFSRATORS (Ungress F.) 国際 38 38 833 252 phart AR 3 8 BB 57 九九九 8 minutes 15 minutes 20 minutes inches per hous inches per hous i - Reasining intensity record lost due to location of 0.98 0.74 0.65 - Duration less than desired partod of intensity. MAXIMUM INTRACTT 1.12 1,00 1,16 6 2,40 1032 2,40 Ē RADITALL 100 W 3.53 0.97 0.95 1.07 0°75 0°74 0°74 3.28 Amenast (toolog) 6 Duration (minutes) 252 9 5 435 ALICHAN SESCIPE 10,28FM 62.10AM Standard gages Regun (bour) (8) Ougs No. Etandard c \_\_ Enord lost second and lost second lost s P. 0-1 3) <u>S</u> 2/ (Sheet No. 3 7-936 1.726 7-936 5-747 7.976 5-747 243 A read WATTER Hotes Ochres Hose Number 20 10 May 15 む雪花花 Des. 5-6 \*Desa 5 Laue 5-6 Dea. 5-6 Dee: 8224 Dec. 27 Dec. 27 1936 DATE Ê

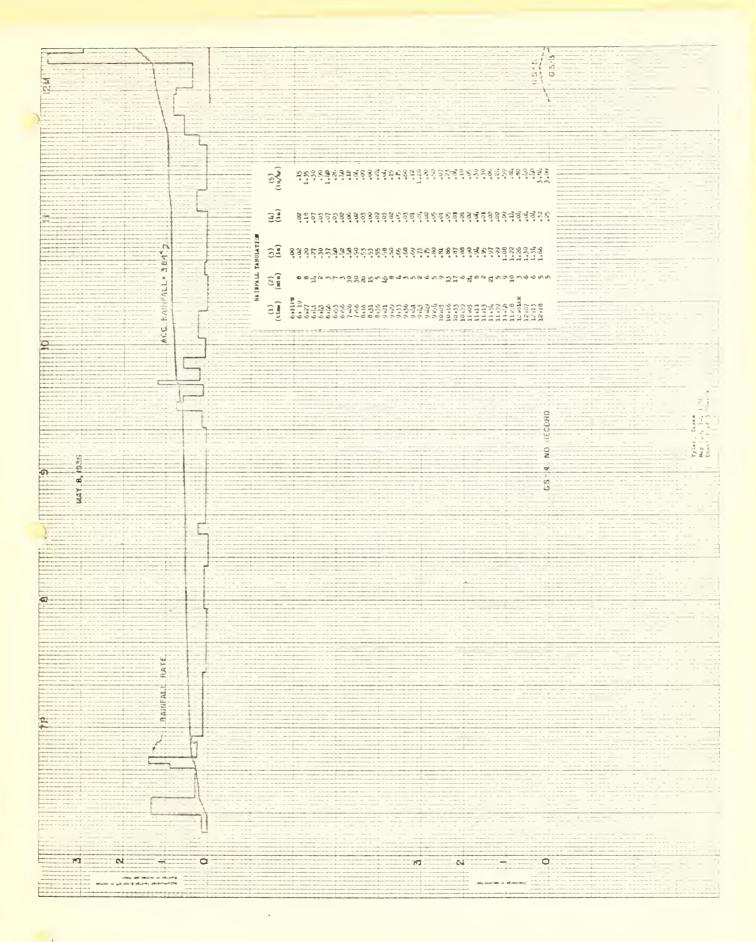




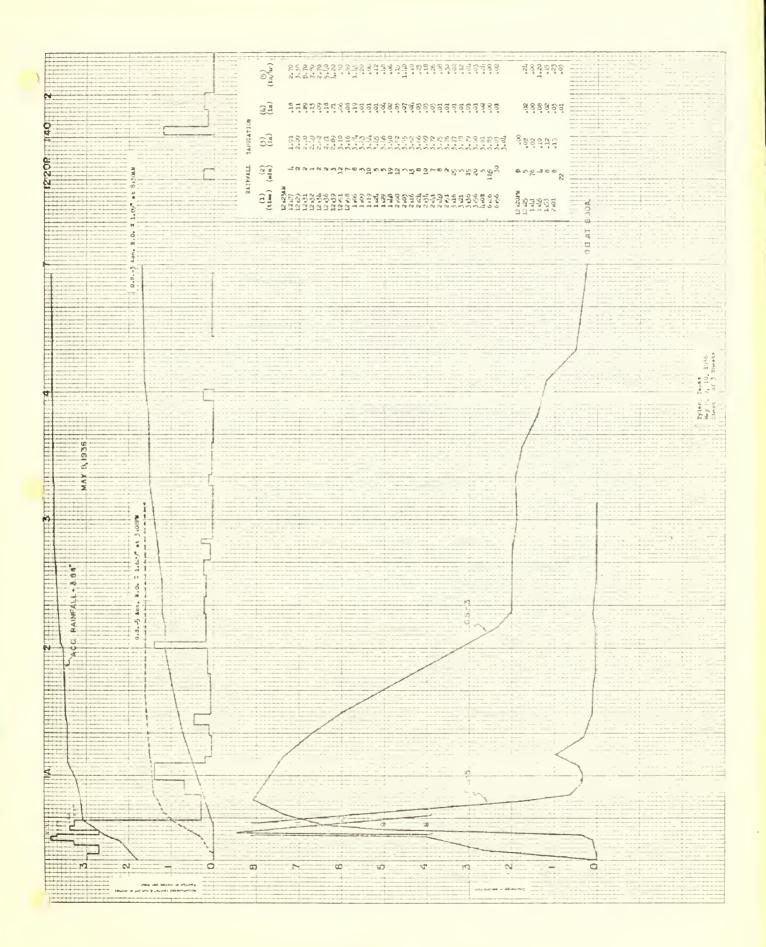


Computations by date theology ON date 5-75-19 Computations by UNITED STAKES DEPONDENT OF ANHIOLISMS SOIL CONSERVATION SOILS OF ANHIOL AND SOIL CONSERVATION SOIL OTHER AS A MENDER OTHER PROPERTY OF STREAM AND A APRIL 26, 1956 STORM NO. 4 0.5. -5 1.73 -16 1.73 1.72 1.72 3.74 5.50 6.50 ACC BAINTALL - 2.93" RUNDIFF 177 Tyler, Teare April 26, 1936 Shart 2 of 2 Sheete 0.8.-3 7.94 1.221.30 5.16 • 6.-52 Mirvin 0.14form HO RECORD DE. APRIL 28, 1936 10 [N] a





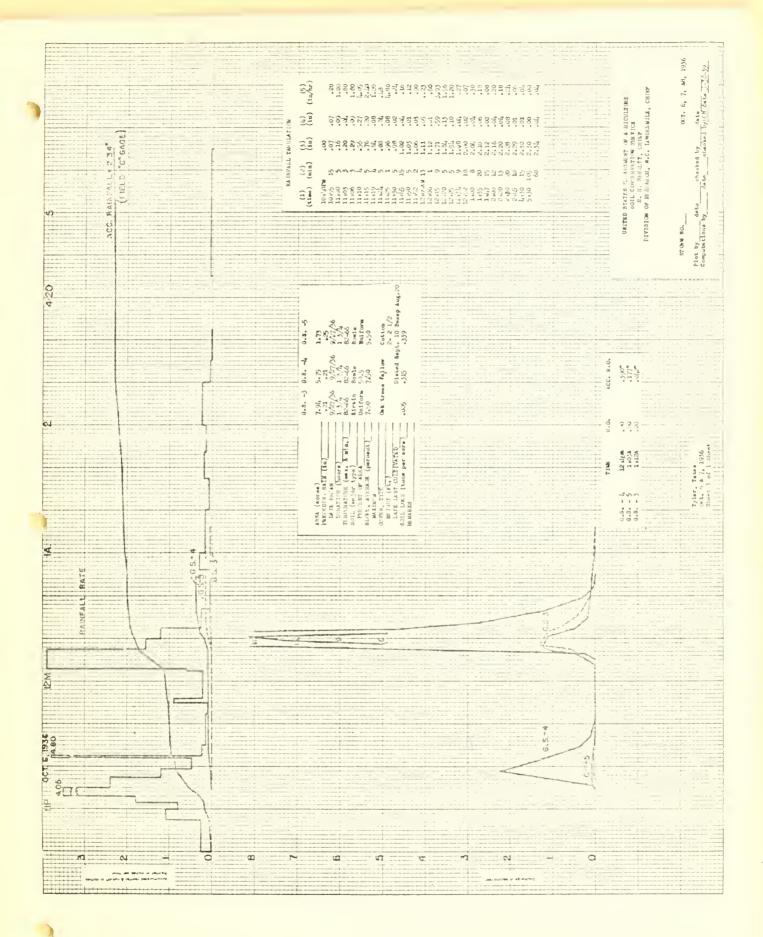


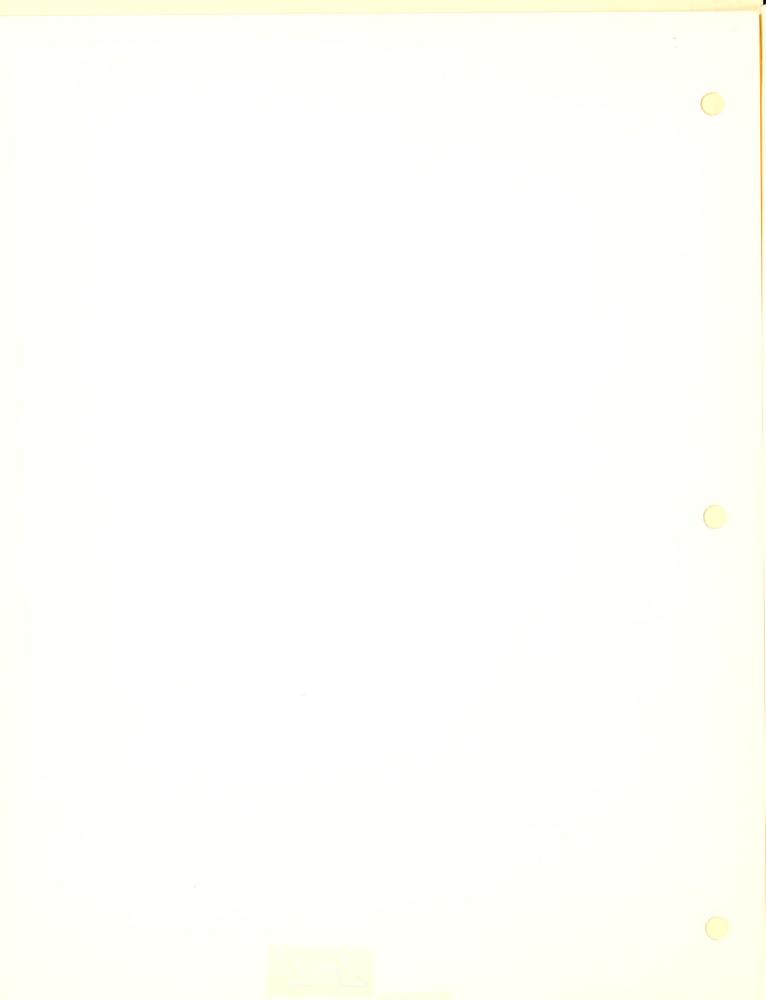


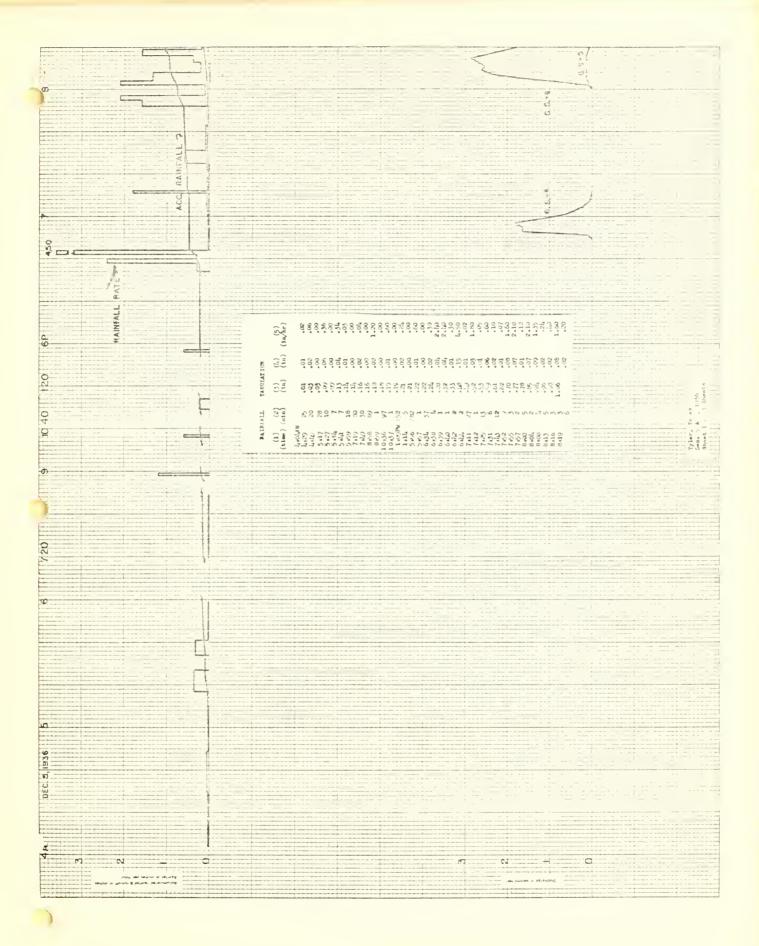


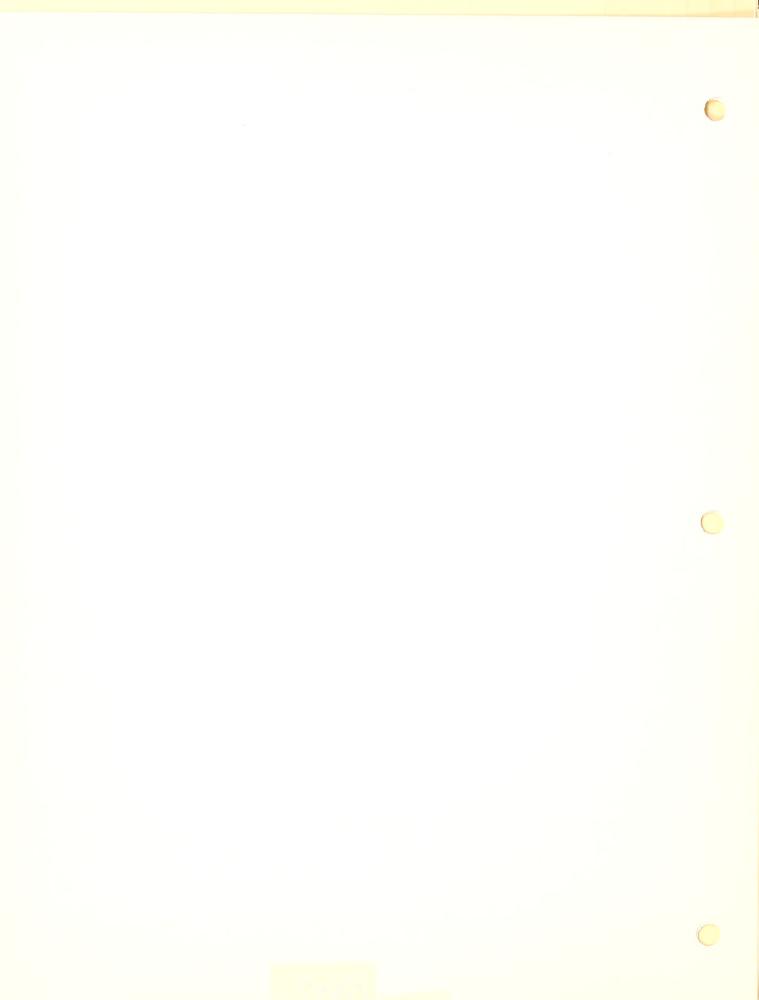
		3
	(6.9) 845998488447558	₹ 1 1 2.
		2
2 1	्रेड्ड <b>१५</b> ०वंश्वेष्ठवंदश्वेत्रवंदश्वेत्यवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंदश्वेत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्रवंद्यवंत्यवंत्रवंत्यवंत्रवंत्यवंत्यवंत्रवंत्यवंत्रवंत्यवंत्रवंत्यवंत्रवंत्	MATRIX DE ANCOLLERE ANATA DELY ANCOLLERE ANATA DELY ANCOLLERE ANA BA 9, 10, 1996 May 6, 9, 10, 1996 May 6, 9, 10, 1996  May 6, 9, 10, 1996  May 6, 9, 10, 1996
		A ARGUITREE LAWING CRIME LAWING CRIME LAWING CRIME CRIME CRIME CRIME AND 1934 CRIME
4	(c)	A B B COLLEGE
	Se salvantententententententententententententen	A WICK
10, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19		Chee
0 4	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		N X X
7 POC	(t(1)) 2.2.2344 5.1.2544 5.1.2544 6.1.254 6.1.	
8 - 1 - 1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	TY3 DE L CONS L CONS RESTAR
	The state of the s	NE N
	The state of the s	NITED STATES SOIL C. LOSION OF RES.
	**************************************	DIVISION DIVISION DAY
5		IN CANADA
2		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DIVISI BLOTE BO. Store Bo. Gemputetions
	1.17 1.17 1.17 1.17 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50	E #
	1.1.75 1.	
	2	
	6. S	
4		
Σ Σ	1 1 11 ITH	
	MAX Lines	- F
RARFE	and the state of t	
¥ III	8 - 1	
# 411	#EEGORO	
	F	
	ON.	
	MR. (seces)  MR. (	
	The state of the s	
	10 (No. 1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	STATE OF THE STATE	H Zã. H
\	MIREA (4)	1
	PARTY NAME OF TAXABLE	13.0
	8 98 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	y 9
	8 18 18 18 18 18 18 18 18 18 18 18 18 18	171-7. T
	NING SALES S	Pler. T
	MAC A SO	Pler. T
	MAC V S S S S S S S S S S S S S S S S S S	7) 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MAC V N S S S S S S S S S S S S S S S S S S	7.10 7 B by 9. 9.
	9 1 4 4 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7.10.7. T. 1.10.7. T.
	ENGLES OF RESERVED	17,40c. 7 18 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18
	MAC TO SECURE	17.20.2. 1 19.20.2. 1
Q	MAC V BRANCE CONTROL OF THE CONTROL	7, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18
	MAC TO SECURITION OF THE SECURITIES OF THE SECURITION OF THE SECURITIES.	Tyles, Y   1978   1979
	MAC V S S T S T S	Tyles, y   W   V   V   V   V   V   V   V   V   V
00325		Tyler, Y   W   V   V   W   V   V   W   W   V   V
02.9		
9		
3.1936 9.1936		
20 M		
20 M		
99 100 100 100 100 100 100 100 100 100 1		
0		
0		
90 0 44 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
90 0 44 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
90 0 44 1 6 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
25 25 25 25 25 25 25 25 25 25 25 25 25 2		

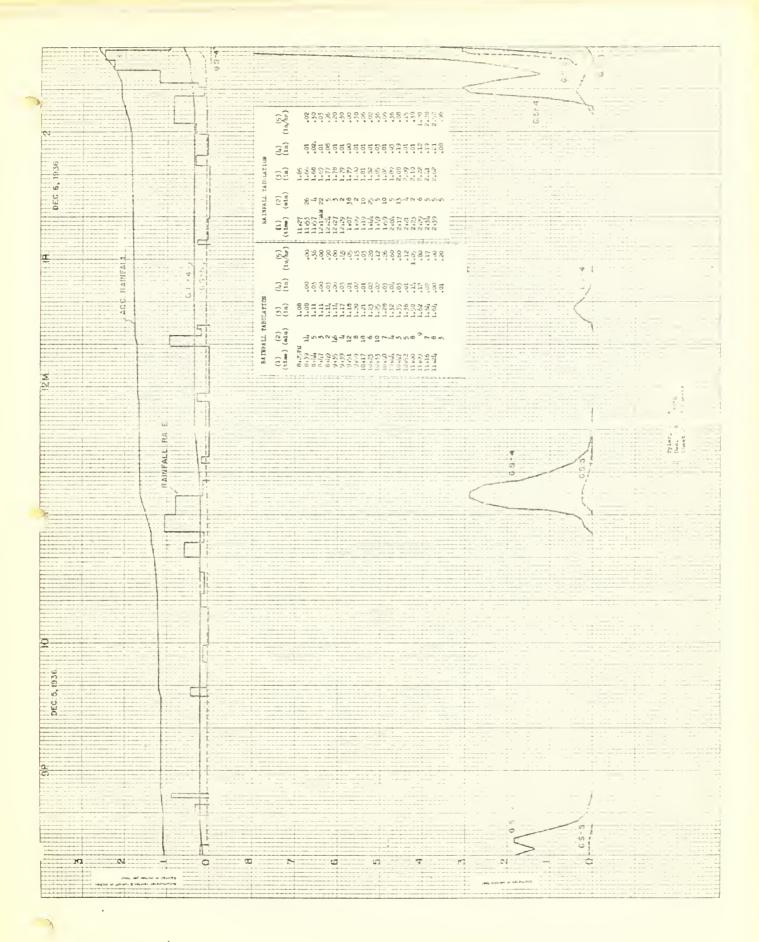














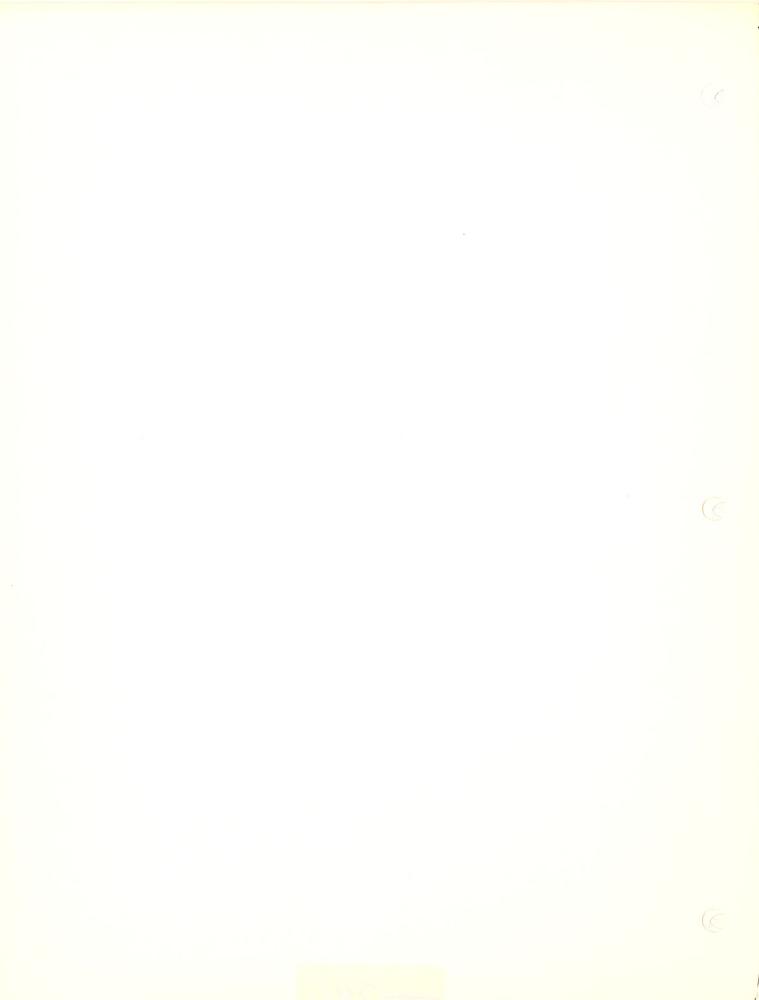




#### Form 6. C. N.-345

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

The state of the s		Condifich of Warenhed		(11)	Fair cover leaven, soil eaturated Vetch 2", good, soil mit, firm Cotton dormant coil wet, firm	Fair cover leaves, soil saturated Vetch 2", good, soil wet, firm DO. Cotton dermait cate 4", good, cotton dermait soil wet, firm	Fair occur leaves soil saturated Vetch 2", good, soil mat. firm Cotton dormant, soil met. fixed	Pair cover leaves, soil saturated DO. DO. DO. DO. DO. DO. DO. DO. DO.	Veteh 2",good, soil saturated, firm	DO. ■ DO. P.O.	po-	BO• BO• DO•	Oats 1, Good stand btwn. cotton	000 000 010	DO. Oats 1, good stand btwn. cotton	DO. Brains, soli Saturated, 1179			
		Sire Lose (folis per acte)			Report	• , .	3 . ]	101:00				į	0.033			0.219	Ġ,		
	AINERE MORE	HOWARD HACKED			0.899 0.666 0.686								1.602			1.510			
					7512T				2,02	CCTO		10,16	12,36			10,111		1	ì
		MAXIMUM RATH		(01)	8.00 0.77				THEO.			1.37				0.15	11.		Ì
Brance		Amount (in hee)	1111		0.001			Luce 3					0.078			0,000		11	
	TENTERATURE TO SECUL THE SECUL SECU	Kadwl		-	0.001 . 1,16P. 0.254 . 1,00P. 0.074				2,20	601		10.554	12.55A.			9.50A.10.L'LA.			
Market Street Co.		Hopas (hour)	10.1		12,08P	MRO NRO NRO	MRO NRO NRO	MRO MRO MRO MRO MRO MRO	1158	NRO NRO	NRO	MR0 10:054.10:554	12,344.12,554	NECO ON NECO	NRO MRO	9.504			
EATURE	( / 0	Masimum Minimara	1		647	K	59	<b>尼巴斯林 B</b> G	23	834	£1.	3	.53	87	ी		t	0	
TEMPE	(quero	Maximum			57	3	z	SSEE 23	2	23	85	8	22	主名	8		1		1
		70 infantes	duches per hour		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20000	90.00	800000 R		90.0	200	हूं वर्षा		9000	0.02	92.0			
	The same of the sa	Maximum Intendity	fuction (see learn)	(41)	1.52 1.18 0.92	0.12 0.72 0.20 0.20	0.00	0.08 0.08 0.09 0.01 0.01		8000	वस्त्र	ू वर्षा		2000 21000	0 0	940			
		Maximus Interest	police per hour) (		2°16 2°16 1°14	00°26 00°36 00°36	0°12 0°21 72°0	21.00	77	0 % 0 %	लेहा	8 aur	-1	00.00	nin	0.72			
N. Carrier P.		Amount (Inches		:	0.90	0.16 0.03 0.13 0.12	0000	00000 00000 000000 000000	1.85	\$0.00 10.00	0.01	0000	1.68	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	500	0.25			
	-	Daration (minutes)	4	(0)	370. 435. 420.	2522	120 130 130	78 E S 3 7 K	7	250	388	383	2	922	123	3		T	
		Began I			6137 AM. 6135 AM.	11.20 PM 11.15 PM 21.50 PM	8:11, AM 8:17 AM 8:28 AM	Show 6:15 PM 12:184M 4:13 AM 2:20 AM 9:20 AM	Total	11253FE	28 28 28 28 28 28 28 28 28 28 28 28 28 2	A SO AN		6,20 PM 12,00AM 1,00 AM	ef .	9.50AM			
		Ones No			REB	8888	20 8	8888888	10	700				923 223					
		A rea (acrea)			7-936 5-747 1-570	7.936 5.747 5.747 1.570	7.936 5.747	7.936 D0. D0. D0. D0.	5-747	5.747	000	322	1.570	,	000	D0.			
		Number			man	<b>どり</b>	MIN	<u>ጽ</u> ቋ አቋ	4	222	-1-1-	1-1-2	2	NNV	, ww	LG.			
W. Charles II.	-	Date 1937	1667		Jane 1 Jane 1	June 6 June 6 June 6 June 6	Jan. 7 Jan. 7 Jan. 7	# 8,9,10 Jan. 11 Jan. 12 Jan. 12 Jan. 13 Jan. 13	■ 8,9,10	Jan. 12		Jan. 11,	8,9,10	Jan. 11 Jan. 12 Jan. 12	Jan 12 Jan 14	Jie all			



Porm 8. C. S.-845

# UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Cets 4" good stand blwn. ootton Do. Do. Do. cover of leaves, soil wet Fair cover of leaves, soil wet DO. DO. HILEETS Votch 2", soil saturated, firm , 19 37 2", soil wet, compact пои от Wатевливо ង A OF Month January N Fair Do. Do. Do. Do. 00000 SHEET Stry Lowe (Some per exter-1bs )0.5 19,01 1.880 2.965 17) Photecr SCS Experiment Station, Tyler, Toxas 11,474 11,15 10,47 Time MAXIMUM RATE 196 09-17 3.91 Cu ft sec. 9.54 170 (13) 0.005 1.030 (3.8) 11107A,1C150P. 5:03F. 5:35P. 10:01A. 3:40P. .01364.12150P. Endad Record KRO Myzo MINO 100 NRO MRO MRO MRO 000 å 4 35 17 52 39 17 23 33 28 87 23  $\Im i$ Tempedatute 66 65 32 077 45 25 28 SA 631 8 \$ 9 82234 20000 0.06 0.02 0.04 MAXINUS INTRINUTY 7 70000 00000 0000 0000 16 0-20 85%85844 004000 0.12 0.12 0.12 0.36 เมนา 1071 1081 200 g 10°0 RATHEALL Amount (hoches) 0.03 0.03 0.03 0.03 0.03 0.03 0.03 7x30 AM 40 10x00AM 185 12x00FM 25 3x00FM 105 6,5274 60 3,2341 120 7,5241 15 8,2041 10 1,1,274 162 3,1674 180 72154N 90 10100AN 45 11155AN 40 1416FN 20 3116FN 135 10,05fM 125 7,10AM 505 4,57fM 173 6,6,4 M 32 9,6,5, 117 11,39fM 15 9,13AM 15 9,13AM 65 4,4,2AM 285 325 207 7215AN 10100AN 11155AN 1216FN 9,10,001 10,5643 LILLZAN LISBER Snow Beggg (hour) Ungo No. 22222 **38888** 22222 8 8 8 8 8 8 8 8 8 999999999 7.94 1.57 Arm WATBRANGO Jen. 17 Jen. 17 Jen. 17 Jen. 17 Jan. 16 Jan. 16 Jan. 17 Jan. 17 Jan. 17 Jan. 19 Jan. 20 Jan. 20 Jan. 22 Jan. 22 Jan. 22 Jan. 22 Jan. 22 Jan. 16 Jan. 17 Jan. 17 Jan. 17 Jan. 17 Jan. 19 Jan. 19 Jan. 20 Jan. 21 Jan. 21 Jan. 22 Jan. 22 Jan. 22 Jan. 22 DATE 1957



## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF HESEARCH

Monra January & February , 1937

	COMPITION OF WATHRANED	(19)	Oats 4" good stand btwn cotton		200	900		DO.	DO.	DO.	PO.	Good cover, soil wet Veth 2" soil wet, compact Main 1 mstand blums, cotton	ats 4. gealks, soil wet, firm	Good cover of lonyps, soil moist Vetch 2", boyer, soil moist, lim Oats 11", Etalks, soil wet, firm	Good cover of Langues, ently my total 2", STOTE and I maid affilm Ontal I " FORTE FROM I with a fallum Ontal I with the	Good cover of Leaves, soil wet		Vetch 2", practically complete			Outs 4", Stalks, soil moist, firm	DO. soil wet, compact	DO. DO.	•0		
	(tons per acre)	(HE)	0	9.6	2 6	2 6	3 5		HE	1 11	1 102-1			None C	5 5 0	0		> 6	1		0 6	9 9 1	99			
	Rankan Mines Runger (Inches)	(47)	1						1		2,155			0.791						ľ				1	ı	
		. 160,	41255		10.00	20101	10,39			11134	9,30			Rate												
	MARIMUM BATE Cu ft sec Thus	(10)	90.0	,	5	CO. T	0.93			0.82	90.0			No						1	1		ļį			
HUNOFF	Vincture (huchan)	1110									0.865			0.009				+								
	Kudwi Aour)	.43.	5120		7.10	0110	12,10		-	Pattor.	0x23A.							1				-	-			
	Bogan (hour)	(42)	4153	OZIN	-	MRO			MRO	9,204.12,110P	9,02A.10,23A	MRO	- Day	NRO NRO	NRO NRO	MRO	NRO IRO NRO	IRO	MRO	MRO	MRO	NRO NRO	NKO	MRO		
A fling of P j	Minimum		39	1.7		35			3		<u>ਲ</u>	88	•	55	61	31		31			31					
Tauriniatiing	Maximum	1	647	3	3	\$			25		07	147		23	76	33	11 1	33			333		1			
**	To secure	(161)	1200	ar.	e c	9000	0.7.0	0.04	2000	0.78	0.18	80.0	J -	0°-0 14 0°-0 0°-0	95.00 85.00 95.00	01.0	3888 0000	0.16	8	90.0	0.12	1 1 1 1 1 1 1 1 1 1		0.04	1	
	MAALM UM DEFERMENT  Bufferties 15 infinities (Unitation) (thebrayes butte)	(0)	0.36	ave	30	200	0.68	0.08	o v	0.68	0.30	0.00	7	크인크	0.56	0.20	0.36 0.36 0.04; 0.04;	0.32	10 C	0.12	12.0	381	0,00	9000		
	MAX.	· ¥)			-					56	-	0.12		0.4B 1.32 1.32	6.00 6.00 6.00 6.00 6.00 6.00 6.00 6.00	-	00.10 00.10 01.00 01.00		0.748	~		0-35 -		7.0		
RAIMPALL	Amount (tuches)	(2)	0.15			90.0			0.00			0.16		0.82 0.81 0.80	0.11, 0		2400			, 				0 72 73 75 0 0		
										·	_			111	· . ,			1		-	, -					7
	Duration (minutes)	1 1	PM 145	-		12			AM 15	AN 11.0		195 195 180 180		AM 372 AM 372 AM 365	AM 15 AW 15 AW 15	A.M. 8	W H	AM 69		14 TE	9 g	3 3 3 5 12 5	3 S			
	Bogan (hour)	, (5)	14136PM	70107	8.01	5113	10,32	11146	10:32AM	11:07.	5100AM	Bulgirm Bulgirm O. 33 FM	011	1,29AW 1,28AW 1,30AW	10 di JAM 10 di LAM 10 di LAM	2 rSJAM	5100AM 8121AM 10132AM 4105PM	Sichall	811520	L1103174	225/10	Garran Garran	12,1777	14:02		
	Onge No.	•	22	7 2	12	121	27	22	42	12	걸	222	1	222	2002	20	2222	9 9	200	101	21 2	4212	1 21;	7		
W. A. DELLOSTER OF THE PARTY OF	Arma (Aczna)	(73)	1.57	200	DO.	00	DO.	. DO.	000	D0.	. DO.	2. 2. 2. C.		7.5 5.73 1.57	7.94 5.73 1.57	7.94	0000	5.75 Po.	8 8	00	1.57	200	200	*0g		
Wat	Number	(%)	w	nυ	٦.	110	, LC	w	'n	S	S	w—3 r	1	w-4 rv	מבת	K	MMMM	147	144	1-7	S	v.	ומו	v		
	Date 1937	9		Jane 20				Jan. 21	Jan. 22	Jan. 22	Jan. 21	Jen. 31 Jen. 31. Jen. 31.		Feb. 19 Feb. 19 Feb. 19	Feb. 20 Feb. 20 Feb. 20		Feb. 26 Feb. 26 Feb. 26	Feb. 26 Feb. 26		Feb. 26	Feb. 26	Feb. 26		20 °C0		



# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

PHONE SCS EXPORTMENT STATION, TYLEY, TORM, RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 1937

N

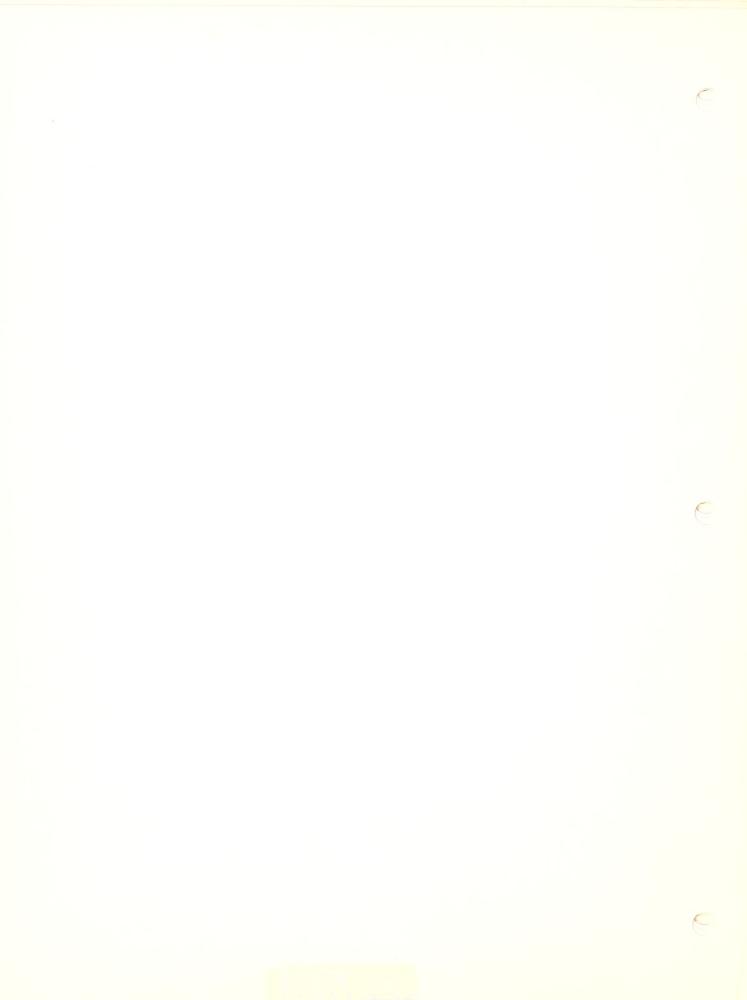
OF

\_

SHEET

Monru Feb. and March

Good cover of leaves, soil wot Vetsh if, complete cover, soil wet Owto if wood stud bt.m... Owto if wootton stike, sell wot, firm Gool ocyar of leaves, soil moist Vetch 5" complete cover, soil wot Vetch 5" good stand bleen. film Cats 4", cotton stalke, soil moist Vetch 3" practically complete Vetch 2" bractically complete Oats In good stund btwn, sotton Onts L" stalks, soil wet, firm Good cover of lagraghts Spf offe cover of leaves, soil wet saturated saturated CONDITION OF WATERAICED 90 00° D0. 90 None 0.034 0.231 Bur Lose (tota par ave) 0.003 MUNICALL MINUS
RUN-OFF
(Inches) 1.102 1.031 0.995 0.824 0.840 8133 Типи Maximum Rate No Mate DQ 00 2 2 2 2 DQ. 88 0.82 Cu ft. sec (13) 0.039 0.005 0.018 Amount 7411Fe 10, 36P. 7121P.12:30A. Profest Country lt Box llt Box illt Box MRO NRO NRO NRO NRO Beggg (bonc) NRO NRO NRO NRO NRO NRO NRO NRO 989888 MRO 37 31 31 45 20 3 50 15 2 937 65 Твыганатона (degrees F) 88 2 8 귰 28 궁 2 坑 8 8 \$ 0.08 16 infautes 30 infautes hackers per hour) (hacker per hour) 2,06 170°0 0.08 0.06 828 0°0 0.00 0.26 0.15 0.15 0.25 0.25 Мазичин Витениту 0.12 2,12 0.08 0.16 222222 0.08 0.25 0.50 라.0 라.0 2445444 200000 224222 RAINFALL 25.00 15.00 15.00 1.00 88888888 33 88 133 105 315 88328833 235 250 555 9,19F2 8,27AM 9,22FM 2,21PM 8125PM 9126AM 1,16FM 8,24FW Bright 12. UFW Sichen Bilgan 7113AM 71175H 7116AM 12,50AM 7:27AM BIZIAN 5, 11,AM 7,13PM 7127AM LILOGAN BIDAM 12,08PM 5,15PM 71 10FM Bogga (hour) On ee No. 200 22 12 88888888 9999999 EREERER. 222 202 \$5.5 2.0 55 1,57 557 5.35 7.9L 5.75 1.57 PRINTING OFFICE . B = 12301 1.57 00000 Area (acres) WATERRIED MM 50 50 Feb. 27 Feb. 27 Pob. 27 Fob. 27 909 27 222 1937 I) A 7 & Feb. Mar. Mar. Mar Mar. Mar. Mare Mar Mar Mare Mare Mar. MAL Mo.I'. Mare MAre Mar.



Monru March and April , 1937

SHEET 5 OF 12 SHEETS		TW) CONDITION OF WAFFLAHED		(10)	Good cover of leaves, soil moist DO.	Votch 5" complete cover, soil wet B DO.		Good coror legves, soil wot, wet, Vetch R. Couples of study bern. Cats 1, 7, 60 teen statks, soil mother.	Occolovur.ingwis. : ill wut j wot vice bill in obitical covers	Seed and the Control of the Seeds	Grod (4) 1 (1) (1) (1) (1) (2011) Weight (1) (2011)	Orla, O's good stand btw: cot*	Good cover leaves, soil wet Do. Do.	Votoh 10-12", wet, compact 00. Do.	this 6" good stand biwn, ootton this 7", Do. Stalkh, soil wmt, firm this 7", Do. Cais 7", Do.	Fair order legging soil moist. 1 Vetch 10-14, ou urraigh, compact 9 Cate 77, good stand blims, colton	
		(tons per scre)		(F.)	+	0.008	0.087									None 0.054 0.199	
EDS		RENEAR MINUR RENEGE (Inches)		(12)		0.632	125.0									0.879 0.743 0.668	
TERSI			Thue	(16)		11,36	12,00									Sate. 5:29 5:24	
OS WA		¥ :	Cu ft nor	(19)		19*0	0.15									2.2 0.56	
THEIR RUN-OFFS ON VARIOUS WATERSHEDS	RONOR	Amonat (fiches)		(11)		O.O.	0.106									0.001	
NO S		P arded (hour)		÷		£128P.	10tP.	Star de V					ata.			c.18P.	
JN-OFF		Bognan (frour)		(13)	NRO	MRO 11:17A.	NRO 11:11 AM	MRO MRO MRO	NRO IRO IRO	MRO MRO MRO	MEG MEG MEG	MRO	MRO NRO NRO	NRO NRO MRO	I'RO I'RO NRO	5117 Box 5177 515F	
EIR RI	Tampaanus (Hegree F)	Maximum Minimum		(11:	33	35	22	7	50	2.	2	37	×	Ř	× ×	đ	
) III a	Taur F			-	83	33	83	ਝੌ	#	70	1,3	113	39	39	- 39	92	. 1
STORMS AND		9.v.	(hickes yer hour	(40)	0.08	0.16 0.10	0.18	0.06 411.0 51.0	80.00 80.00	0,0	127	0,10	र ते ते ते ० ० ०	0,06	ਰ ਰ ਰ ਹ ਹ ਹ ਹ ਹ ਹ ਹ ਹ	0.96 1.08 1.08	
(±1		Maximum forganavy	(Behan par hour)	(0)	0.16	0.32	0.24	0.08	0,03	· · · · · · · · · · · · · · · · · · ·	• • •	0,20	0°55 0°55 0°55 0°55	0.08 0.08	######################################	1.56	
F SING		5 relations	mehre, per hour) (faches per hear) (inches per hour)	Ė	15.0 0.10	0.48	0.36	0.12 0.01 15.00	17°0	25° C	ন্ <b>ন্</b> নীন্	योगी ००	min	0.12	विवर्ष	1.68	
CORD 0	RAINPALL	Amount	(100)	(2)	0.00 44.00 82.00	00 P	0.09	21.00	00°0		. 500 . 500	25.00		1988	20000	0.98	4
PRODUCTSGS Experiment_Station, Tyler, Texas		Began Duration (nour) (minutes)	-	(0) (0)	31511Ptt 30 9151481 315	3152FW 30 9449AW 345	31521N 25 91544N 355	6121PM 50 0127M 65 6125PM 65	54.354M 15 15.11W 25 1.3.14W 26	12 12 120 120 130 130 130 130 130 130 130 130 130 13	145 AM 20 145 AM 20 145 AM 205	9137AH 70 11150AN 23:1	9111AN 135 Liperia 45 3120PM 210	8:7 170 2:10PM 20 4:55PM 270	9,0044 150 2,2714 210 8,42PM 120	31,38PM 160 31,34PM 155 3147PM 150	
station,		Once No.		=	88	29	21	799	523	937	0,33	12	02.88	00 00 10	22 21 21	100	
eriment.	Wateriifd	Arres		(3)	7.936 DO.	5.74.7	1.57	7-936 5-74.7 1-57	7.936 5.747	7.336	: , ,36 5 - 7/1 - 7 50 - 1	1.570	7.936 IM. DO.	5-747 5-747 5-747	1.570	7-936 5-747 1-57	1
OBECT SGS_Experiment	War	Number		(3)	nn	77	NN	ntin	ろはら	ntn	EEM	N IU	mmn	744	000	w4W	
Project.		1) a v a	1937	(8)	Mar. 13	Mar. 13	Mar. 13 Mar. 14	Mar. 17 Mar. 17	Mar. 19 Mar. 19	Mar. 23	Mais Co	Mar. 26	Mar. 29	Were 29	Mar. 29	Apr. 3	1 1



, 19 37

Month April & May

Water or servery and the villow onto the control of Full for the factor of the fac This cover leaves, soil moist.

Area redisced & succeled, s. in.

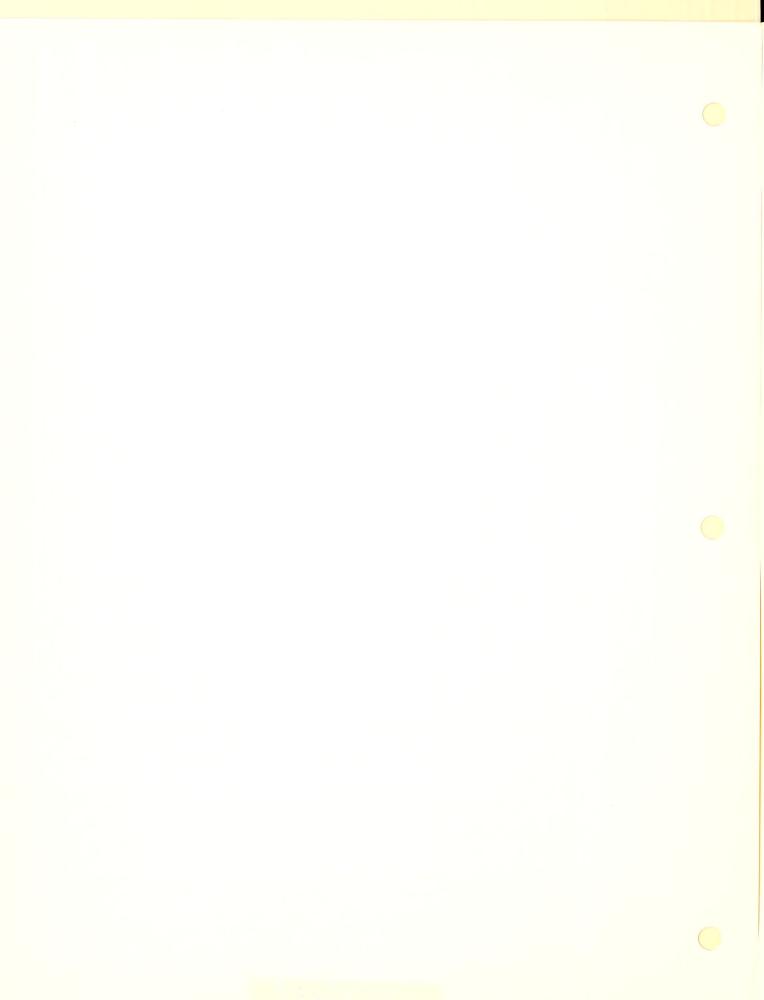
Area redisced to the following the most of the m Fair corer lawns, soil moint Area redirectly to this, soil Out & Donald to the two states states, Edin add the print two cotton leaves soil n 13t dry Good cover languas soil with Veton 10-11 mening todon on the Cate 8" ween the soil make, them Oats 1. ", Clarks ool to collon Onts 30" Food stand btwn, gotkon "The Votoh 10-11 antura ded compet Onts 7" good stain blun, film Onts 7" stalks, soil wet, firm Pair cover lagens, seil molett Vaton 1. -lor cliff seil och seil Onts 8" gloristen seil molet, firm BILLETB Area rodiscod & Smoothed, soil moist, loose Good cover of seaves, soil wet 2 CONDITION OF WATERABED 40 Falr cover 9 SHEET None 0.070 None D. At3 Brr Lose tons per acre) 971-0 (Ha) RAINWALL MINUS 910. 0.212 £20° PHOLICY SCS EXPORTMENT STATION, TYLOR, JOARS RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS No Rata Lett 1 and 2-75 Inche Thine 9 No Pate DO. MAXIMUM RATE Cu ft. nec. (10) 0.002 500000 Amount (Inches) HUNDER Knoled (hour) llt box Cilt Bex MRO MRO 1110 NRO MRO MRO NRO NRO NRO Heggen hour) KRO MRO NRO NRO NRO 균 抗 9 3 6 53 73 3 3 8 (Segrees F.) 3 ઝ 2 78 G G 92 98 98 82 7 ਤੁੱ 98 0.30 ਹੈਰ ਹੈਰ ਹੈਰ ਹੈਰ ਹੈਰ ਹੈਰ 0.13 0.1/1 0.0 0.16 0.16 9.00 0.00 90.0 0.18 MAXIMUM INTONUTY Sampartee 16 minutes 0.16 0.03 0 12 0 16 0 15 0 24 0.12 0.24 ส์ จี สี 2 0 0 0.00 ਹੋਂ ਹ**ੇ** 0.72 0 1 1 1 1 1 1 ਹੈ। ਹੈ ਹੈ ਹੈ RAINFALL 0.15 0.17 00.0 0.12 0.12 0.13 0.19 0.03 0,000 0.12 0.02 0.05 0.03 0.07 23 125 230 885 0707 50 20 145 50 50 50 3116PM 812874 812714 812714 7141PM 2:31PM 3:15PM BIOUPM 6120FM 7,151M. W19th 4 MIGO: A 210/PM 7. LOPIL 10.00FL O121Ph Began thour) 20 Ougo 12 20 222 8 = 3 20 10 12 202 10 202 1.570 5.747 5-71.7 7.936 5.71.7 1.570 7.936 1.570 7.936 DO. 5.747 7.936 5.747 1.570 7.936 7.936 5-747 .7117 1.570 ,936° R 4. RELUMBERT PRINTING SPRICE R 12304. A rea (acree) WATSRABED nt in mm 45 m\_tin pr. 4 Apr. 13 Apr. 13 Apr. 13 100 Apr. 4 1937 2:22 000 10 10 Apr. 1 Apr. Apr. Apr. Apr. Apr. May MAN May May May May May May May May



## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

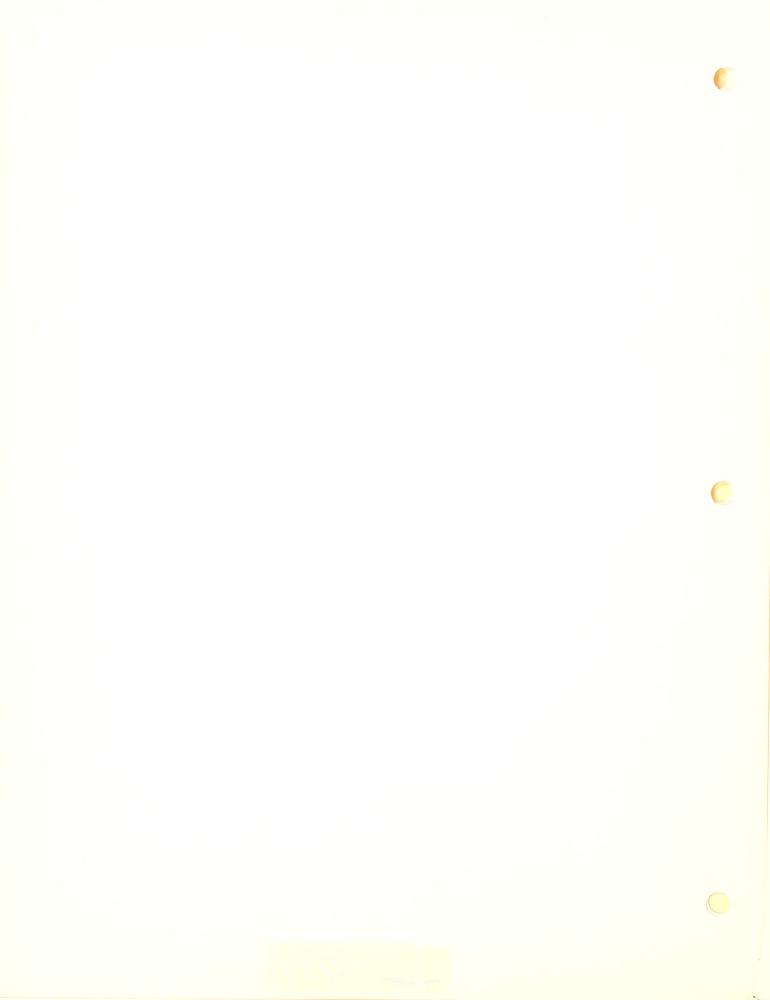
Tair cover leaves, 12" to moisture Cotton not up, 2" to moisture losses Fair cover leaves 2" to moisture. Cotton sparse, 3"to moisture forse out stubble, 6", soil dry, firme Fair cover leaves, topsoil dry Sist Out stubble, 6", soil dry, firm, DO.
Out stubble, 6", soil molst, firm, Cotton 2-3" fair stand, soill moist Out stubble 6" soil moist, firm. Do. wet. Cotton 2-4" fair stand, sqil moint oover underbrush, soil meist. Fair cover of language soil moisture, Catton planted #511 to construct, Oats 30" Electric form color, color Oat stubble 6", soil molet, firm. Out atubble o", good stand goll , 19.37 SHEETH Cotton sparse, soil Losse. Good cover, soil moist DO. wet Оомитом от Wаяванки 2 Monru May and June 40 7 SHEET . 00 8 BILT LOSS (Lors par sero) 4.209 060\*0 None 1.8884 2,178 2.322 MUN-HER (Inches) (12) Pholege\_ 5CS Experiment\_Station, Tyler, Texas DQ-DQ-DQ-1-30 2827 9-40 8131 2,17 2,17 8133 MAXIMUM RATE Tune Ê No Eate 900 6.80 0.77 15.0 Cu ft. sen. (17) 0.336 0.002 0.148 2:214. 2454. 8:214. 9:054. 0102A. 2,10P. 2,37P. 2,10F. 2,12F. Fuded, NRO B.25A. NRO Silt Box 0 ME MRO MRO MRO MRO MRO NRO MRO MRO 0000 MRO MRO NRO MRO MR 3 8 8 8 38 63 38 63 3 3 3 19 19 Trarrangena (degrees F) 29 2 2 98 ಹ 23 2 E 83 3 83 85 2 E 63 82 85 0.10 0.19 90.0 0.09 0.00 0.20 0.16 0.55 5.06 0.06 1.26 0.74 0.04 0.08 0.36 0°0 0.20 0.08 3,0 0,80 2000 16 minutes Inches per luxer) (to MAXIMUM INTRAUTT 7.30 0.40 0.16 0.20 0.21 0.08 0.20 0.16 0.24 0.08 1.76 0.08 0.89 388 0,00 1,28 0.32 1.08 0100 0.03 0.08 3,00 2.16 0.12 1.68 0.12 0.36 0,00 1.92 RAIMPALL 25.00 0.00 0.00 0.00 0.00 0.00 0.13 0.12 0,40 0.89 0.07 0.35 2.18 0.80 0.01 2000 70°0 0.09 744444 60 1010344 145 241024 5 8,124# 220 2,404# 40 1,557# 25 28258 12.40AM 115 8.19AM 210 2.55AM 60 1443F# 30 128 7123AM 75 9152AM 155 N 150 3 1.55AM 120 823 2352 දු දු 2 85 7x30AM 1 59AM 6234434 7255AM 7153414 44C516 2 LL TIN L2 1/10AW 1:29AW 2 stylen MV-3519 LOIVE 1 OCAN 5,22A¥ 1,1544 6139AM B: 11:AM 5125AM 6137AM Began 893 893 នានា 888 99 2222 99999 8 8 233 20 9 12 1.570 7.936 7.936 7-936 5-747 1-570 7.936 5-747 1.570 1.570 7.936 5.747 000 R. S. SQTARCHEST PRINTING OFFICE D 12308 1.57 888 WAPSRAHED June 16 June 16 June 16 June 16 May 22 June 3 June 4 June 4 9 22 May 13 99 1937 31478 June June June June June June June June June Juno June June June



Form 8, C. 8,-845

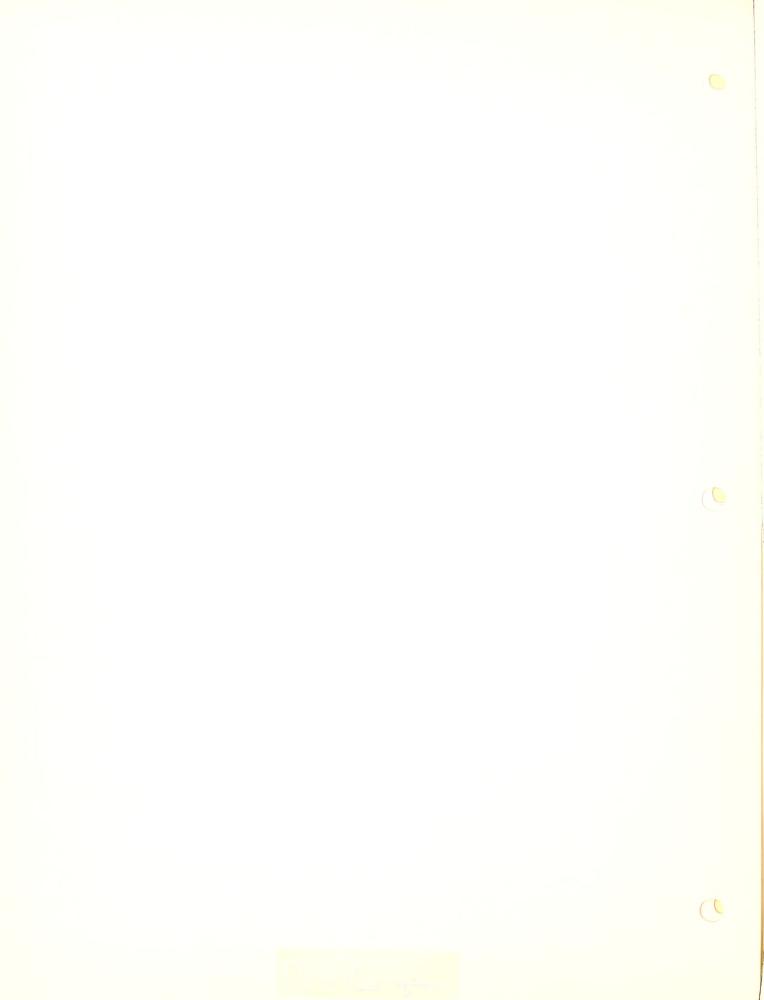
#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Ouks in full Louf, soil dry, Cotton C-ll,", soil looms, dry. Baro, soit fallow, soil loose, dry. Bare, soft fallow, soil loose moist Good covor. Soil melst, soil.
Cotton 1,-6" fart news.
Ont stubble 6", good moist, free, oil soft fallow, soll looms, modert Pare, soft fallow, soil loose, moist Cotton Gallin, well loose, moist. Oaks in full loaf, soil moist. BUEETB Monrie June, July, August , 1937 Onks in full leaf, soil moist Cotton 6-11," fair stand, soil Onks in full leaf, soil moist Cotton 10-24", soil moist Bare, soil loose, moist Ouks in Mill lant, soil moist Cotton 10-20", soil dry Usara, soft fallow, soil dry Oaks in full leaf, soil dry Ouks in full leaf, soil dry DO. Cotton 10-2/1", woil moist CONDITION OF WATERSHED 12 Ē 40 8 SHEET 2 2 2 Birg Loss (tons per acre) MINEALL MINER REIN-Ove (Inches) (2.1 PHONECT. SES Experiment Station, Tylor, Toxas RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time MAXIMUM RATE Ē Cit ft and 119 Amount (11) Ended (hour) 3 MRO MRO MRO Began hour) NRO MRO MRO TRO NEO NRO WRO NEO NEO NEO MRO NRO NRO NRO NRO MRO MEO MRO MRO NRO 67 22 72 72 20 TRAFORATURE (degrees F.) 22 3333 333 444 333 23 dadmun M. 97 97 97 2222 288 88 95 85 2222 222 222 **ದ** ದ ದ 97 97 97 97 0.55 0.55 0.18 0.18 1.36 0.12 0,16 10.0 10°0 0.0 0.02 0.04 MARINUM INTORITY Inches per hour) (Inches per hour) 00°00 00°00 00°00 11.8 12.8 12.8 13.8 0,32 0.04 0.08 0.04 0.12 0.08 2-110 1.23 0.04 1.20 3.68 3.0 0.18 0.00 0°15 1,32 2.88 3.75 3.75 ਹ**਼** ਹ 0.21 0.24 1-14 RAINFALL 1.20 0.02 90.0 0.02 0.02 Amount (Inchwi 0.08 0.56 2000 2000 2000 0.02 0.02 0.50 368 8253 523 10 8 98 8835 000 유일 500 5:14.PM 5:13.PM 5:52.PM 12,46FM hilzen L130FM 11. 14.24 Suldate LI 203 LIOT: 4 EsolPM SI'A PM DOFE THE 137FW 12:02AK 8:19AM 9:45AM Began (botte) 5 2 JUPIE Ougn No. 823 223 10 ್ಷ 334 223 2223 223 200 7.936 5.747 1.570 PRINTING OFFICE & LOSGIE 7.936 7.936 5.717 5-747 1.570 1.570 70,336 7.936 5-74.7 1.570 20:47 1.570 7-936 5-747 1-570 7.936 5.74.7 1.570 7.936 A rea (acres) Dr. DO. 200 000 WATHROHED 250 June 18 June 18 June 18 ~~~ N. R. SUNS 66 Ċ, 00 222 July 20 July 20 July 20 10 July 10 July 10 July 10 July 22 July 22 July 22 Aug. 13 Aug. 13 DATE 1937 222 July Suly Suly Suly AUC AUCO



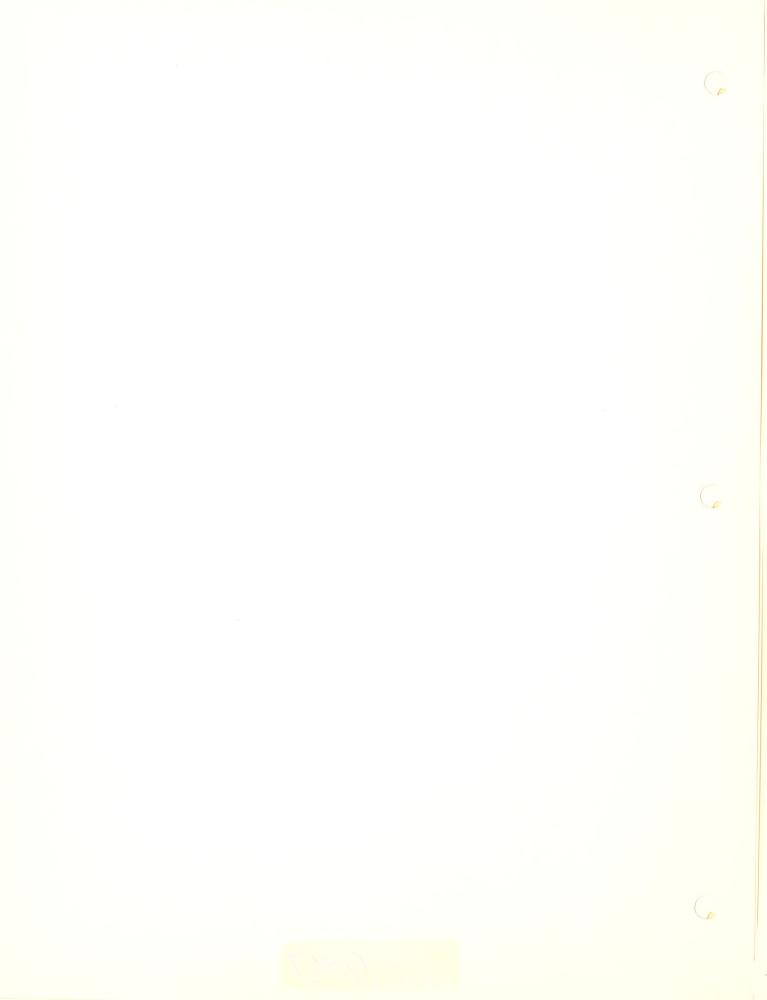
Monrh August, Sept. Oct., 1937 OF 12 SHEET 9 PROINCY SCS. EXPERIMENT. START TOTAL TOTAL TOTAL SECOND OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

Column		WATE	WATERORGO				RADINALL	ź			TRAFERATURE (dogress F )	a F )		RUNORE				
1,	***				-			M		.1			-	Amount	MAKIMUM RATE	RAINFALL MINUS	(tons par sore)	CONDITION OF WATERBURD
1	37	Number	A ress (acres)	Once No.		minutes)		5 minites (inches per hour) (	is minutes (inches per bour)	Niminates (Enches per hour)	Medimum	Minimum		(Echa)	_			
13   1,		(2)	(3)	(4)	(3)	(9)	(2)	(b)	(8)	110	(1)	,		40		(17)	(18)	(19)
1, 2, 1, 570   12   91, 21M   15   0.075   0.042   0.040   0.026   97   75   MBO   1.010M   1.020M   5   0.040   0.040   94   70   MBO   1.020M   1.020M	55	77	5.71.7 Do.	10	8:19AM 9:47AM	8 8	0.26	1.80	1.00	0.52 14.0	97	25	NRO	ļ				Cotton 18-30", soil dry.
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		200	1.570 Do.	ងង	8121AW 9143AW	15	0000	96.0	0.28	0.24	97	75	NRO					Baro, soft fallow, soil dry.
1	500	W-4 rV	7.936 5.747 1.570	20 10 12	L:30PM L:00PM L:00 PM		0.02 0.02 1r.	0.21.0	90.0	0.04	ਰੋਹੋ।	70 -	MRO NRO NRO					Oaks in full leaf, soil dry. Cotton 24-30", soil dry. Baro, soft fallow, soil dry.
1   3   7.936   20   10.6399   2.06   1.68   1.28   1.41   90   71   10.6389, 10.639   1.68   1.28   1.41   90   71   10.6389, 11.609   1.28   1.41   90   71   10.6389, 11.609   1.28   1.41   90   71   10.6389, 11.609   1.28   1.41   90   71   10.6389, 11.609   1.28   1.41   90   72   11.609   1.28	888	M4W	7.936 5.74.7 1.570	20 10 12	31231FW 3131FW 3103FW	100	1.50	2.88 3.84 3.00	2.40 2.418 1.141	1.32 2.12 1.22	888	222	3154. 4107 31587. 4138 NRO	P. 0.220	No Pulle 6	1.498	1.257	Oaks in full leaf, soil dry. Cotton 21-30", soil dry. Bare, soft fallow, soil dry.
1   2   7,936   20	222	25	7.936 5.747 1.570		10:29PW 10:27FW 10:21FW	200	05.0 00.0 00.00	2,16 1,68 1,80	1.28	82°11	888	222	10,52P.11,50		.36 11109	0.817	0.114	Caks in full leaf, goil dry. Cotton 24-50", soil moist Bare, soft fallow, soil moist.
2 3 7.936 20 11.23TW 30 0.64 1.44 1.28 0.96 66 11.18F, 2.133F, 0.000. 2 5 1.570 12 11.15TW 43 0.70 2.40 1.48 1.18 66 11.18 66 11.18F, 2.133F, 0.026 5 1.570 12 11.15TW 43 0.70 1.240 0.88 0.50 86 69 72 NRO 5 1.570 12 12.10TW 15 0.04 0.24 0.16 0.06 89 72 NRO 5 2 1.570 12 12.10TW 80 0.38 1.20 0.96 0.98 69 72 NRO 5 2 1.570 12 12.10TW 80 0.38 1.20 0.96 0.96 69 72 NRO 5 2 1.570 12 12.10TW 80 0.15 0.04 0.16 0.16 0.16 0.16 0.16 0.16 0.16 0.16	ппп	25	7.936 5.747 1.570	20 10 12	1,02FW	15	0.13 0.11 0.02	0.72	0.52	0.26 0.22 0.04	888	222	NRO NRO NRO					Cake in full leaf, woil moist. Cotton 21-30°, soil moiet. Bare, soft fallow, soil moist.
5         1         7.936         20         12;156Ht         15         0.04         0.24         0.16         0.04         99         72           5         5         1.570         12         12;120Ht         15         0.04         0.24         0.16         0.06         89         72           25         3         1.570         12         12;100Ht         -         78         -         99         72           25         4         5.747         10         7;25Ax         89         0.35         1,20         0.96         0.32         73         63           25         4         5.747         10         7;25Ax         89         0.35         1,20         0.94         0.16		nem	7-936 5-74.7 1-570	222	1,23FW 1,15FW 1,19FW	2203	0.64 0.70 0.39	1.016 2.10 1.92	1.28 1.48 0.86	0.96 1.18 0.50	888	888	1,49F. 2,33 1,35F. 3,30 NFO	P. 0.001	No Rate	0.639	none 0 427	Oaks in full leaf, soil moists Cotton 21-30", soil moists Baro, caft fallow, soil moists
25 3 7,936 20 7,126AM 80 0,35 1,20 0,96 0,72 73 65 25 5 1,126M 85 0,37 1,20 0,84 0,46 75 65 25 1,20 0,84 0,46 75 65 25 1,27 10 7,125AM 95 0,31 0,96 0,84 0,46 75 65 25 1,27 1,57 10 5,115AM 200 0,15 0,12 0,08 0,06 65 57 0,9 1,57 1,57 10 5,115AM 200 0,16 0,21 0,12 0,08 0,06 65 57 0,15 1,57 1,57 10 5,115AM 200 0,16 0,21 0,12 0,08 0,06 55 57 0,12 0,12 0,10 0,10 0,10 0,10 0,10 0,10		מבת	7.936 5.747 1.570		12:26PW 12:20JW 12:00FW	15	0.04 0.04 TR	0.24 0.24	0.16	0.08	66.66	222	NRO NRO					Oaks in full loaf, soil moists. Cotton 24-30", soil moists. Baro, soft fallow, soil moists.
3         7.936         20         5115Au         180         0.15         0.12         0.08         0.08         65         57           5         1.570         12         51.0Au         200         0.16         0.24         0.12         0.10         65         57           3         7.936         20         21.25Au         660         0.75         0.12         0.08         0.08         56         57           3         7.936         20         51.00Au         45         0.04         0.12         0.08         0.08         59         57           3         7.936         20         51.00Au         45         0.04         0.12         0.08         0.08         59         57           4         5.747         10         11.50Au         60         0.71         0.24         0.16         0.06         58         55           4         10.         11.50Au         60         0.71         0.24         0.16         0.06         58         55           4         10.         15.00Au         25         0.08         27         0.04         50.04         59         55		245	7.936 5.74.7		7:25AM 7:25AM 7:21AM	80 85 95	0.38	1,20 1,20 0,96	0.96 0.84 0.84	0.72	222	222	NRO NRO NRO					Oaks in full leaf, soil dry. Cotton 21-30", soil dry. Oats smarging on control atrip.
3         7.9956         20         21.25AM         660         0.75         0.12         0.08         0.908         58         55           3         7.9956         20         51.00PM         45         0.04         0.12         0.08         0.06         59         55           1         5.747         10         11.56AM         60         0.71         0.24         0.16         0.16         5.01         58         55           1         10.         11.50PM         60         0.02         2/         0.04         0.02         58         55           1         10.         15.00PM         235         0.08         2/         0.04         50.04         50.04         56         55	000	25	7.936 5.747 1.570			180 200 200	0.15 0.16 0.18	0.12 0.24 0.12	0,08 0,16 0,12	0.08 0.10 0.10	222	57	NRO NRO NRO			1		Oaks in full leaf, soil dry. Cotton 24-30", soil moist. Oaks 2" on central stripu.
14 5.747 10 11.564M 660 0.02 2/ 0.016 0.14 58 55 14 150 10.0 10.0 10.0 10.0 10.0 10.0 10.0	13	www	7.936 7.936 7.936			660 145 88	0.75 0.04 0.05	0.12	0°08 0°09 0°09	90,00	58	55	NRO NRO NRO			, , , ,		Cake in Auli leaf, soil dry. Do. Do.
_	13	444	5.747 DO. DO.			660 - 60 - 235	0.08	क्तु व्या	0.16 0.04 0.04	0.11 0.02 0.01	28.8	55	NR O NRO KRO				+	Cotton 21-30" qats drilled btwa rows, soil dry loogs of the Cotton 21-50" rows, mile 1 loose, Cotton \$\footnote{\sqrt{n}}\sqrt{\sqrt{n}}\s

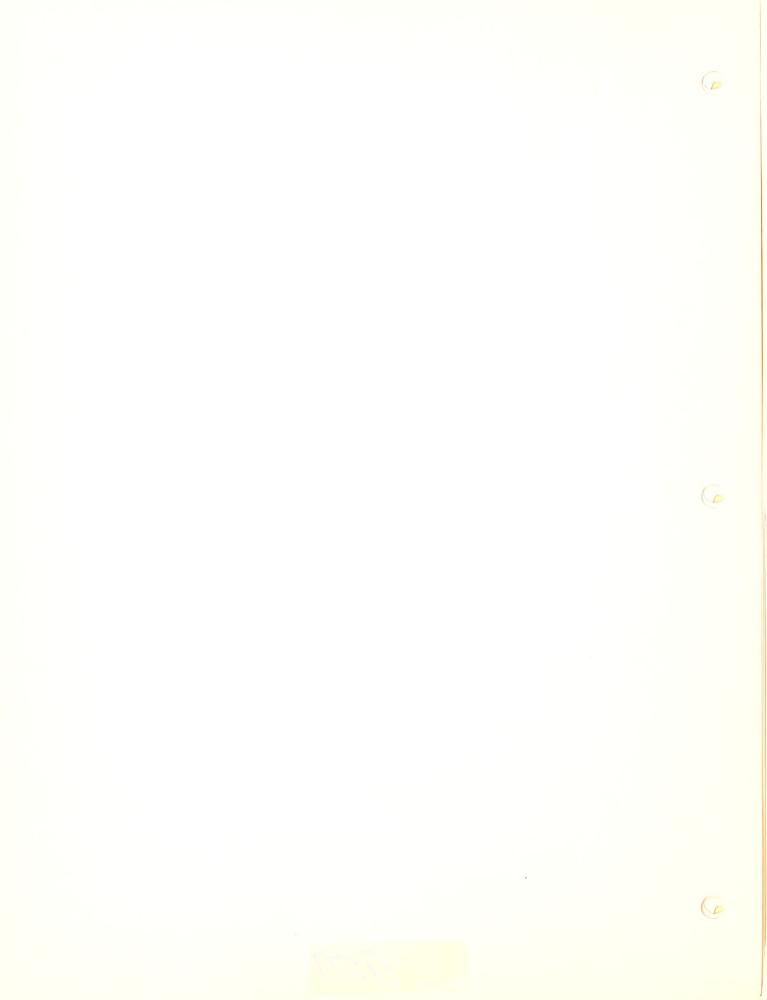


Monril Oct. and November , 1937

	WATE	WAYERHED				RAIMPALL				TEMPERATURE (degrees F.)	ATPER w F)			RUNGORE					
DATE							MA	MAZIMUM INTONUTY					100		MAXIMUM RATE		HAINEALL MINUS	SILT LONG	CUNDITION OF WATERINED
1937	Number	Arm (skres)	Ouge No.	Bogun (hour)	Duration (minutes)	(includ)	(inches per hour)	16 minutes   Minimies and minutes   (inches   er hour)		Martinum Minimum	Maham	(JPOIL)	thours)	(hichos)	Ou ft we	Time	(HICHGRA)		
Ē	(2)	(3)	(4)	(8)	(4)	(2)	(%)		1101	-		(12)	0.1	910	(13)	010	(17)	(88)	(14)
Oct. 13 (ct. 13	ru ru	1.570	22	2.30AM	125	0.00	0.00 0.96	0.28	0.26 0.26	28.29	22	NRO			y.				Baros soft fallows soil drysloose DO
Oot. 14	- t	5-747	ងដ	3 2 20 AM	201	0.02	તાત	0,04	0.02	63	57 57	NRO				į į		,	Cotton 21-30", oats drilled btwn.
Oot. 16	m	7-936	20	415384	30	0.04	0.12	90.0	0.09	70	43	NRO		1	ŀ	1			Rood, molst, firmer goal molst Fair cover leaves.
Oct. 16	70	1.570	10	L155PM 5100PM	521 521	20.0.	ਜੂ ਹ ਹ ਹ	0.12	90.0	20	143	NRO		-					Cotton 24-50" only monthly VP669-9 Vetch not up moist lower only 25-9 Vetch not up 0000, moist, firm.
00t. 17	MM	7-94.7	88	2:21AU	315	0.36	1.20	0.04	0.00 80.00	55	33	NRO							Fair cover leaves, soil moist. Fair cover seaves, coil mute.
Oot. 17 Oot. 17 Oot. 17	222	5.747 po. po.	999	1,21AM 3,37AM 10,12AM	70 24.5	0.07	9,000	0.34 0.56 0.08	0.12 0.56 0.08	222	333	MRO URO NRO	i I	1					Cotton 24-30", soil molet, loss Do.
Oot. 17 Oot. 17 Oot. 17	2002	1.570 DO. DO.	ដូដូដ	1125AW 3thlaw 11121AW	0 to 10 to 1	00.00	0.56	0.16 1.01 0.08	0.08	222	333	NRO NRO							Vetch not up, moigt, loose, Cuts DO. BO.
Nov.	מבת	7.936 5.747 1.570	120	4115AW 2155AW 4105AW	848	00000	8 g 0 0 0	0°22 0°28 0°28	81.00 000	222	57	MRO MRO NRO	* * * · · · · · · · · · · · · · · · · ·				90) †	8   1	Fair covor of logvos, topsophldry. Cotton stalks onts Enfranchelle Vetch Free Content of the Con
Nove 9 Nove 9	MMM	7.936 DO. DO.	888	11.55AM 1.55AM 12.15FW	740 1470 150	0.68 2.19 0.10	0.77 0.27 0.21	45°00 0000 0010	0.16 0.56 0.10	293	60	NRO NRO NRO							Fair cover of leaves, topsell dry Do.
Nov. 6 Nov. 9 Nov. 10	444	5.747 po. po.	02 03	1150am	6500	2,30	0,60	0.00	0.30	28.2	23 25	NRO 5.01A.	7158A.	, υ. ι. ι.	1.79 6	6120	2.866	1	Cotton stalks Cats 2", fair, Line of Growth leaves, soil moint, loose Do.
Nov. 8 Nov. 9	NN	1.570 D0.	12	12,00FM 1.5LAM	077	8.000	8.3	1770	0.38	23		IRO Silt Box		0.019	No Rat	Đ.	2.876	0.172	Votoh 2" fair Oats 4", good, wet, wol, first
Nov. 15 Nov. 15	мм	7.936	88	12,04,174 7,35,174	70	0 1 0 0 2 2 2 0 2 2 2 2	3.60	1. 84.89.	1.76	22	东东	12,02P.	11552		15,12,37	1527	2.941 1.276	0.031	Fair cover of leaves, soil wet DO.
Nov. 15	বন	5-747	00 01	7.05PM	150	1.26	5-1,0	3.96	177° 5	22	런던	12:20F. 7:48F.	1.04.P. 8.52.P.	0.044	26.39 12s4B 3.91 7.56	8418 1.56	9	0.015	Cotton stalks, 2 growth leaves;
Nov. 15	S	7.936	88	12.04FM	32	11 5				17.	충동	12,21P. 7,468P.	1.22F	- 0	2.90 12	12,31 7,55	1.150	6.140	Votoh 2" fair oats L", good, wot wot, firm,



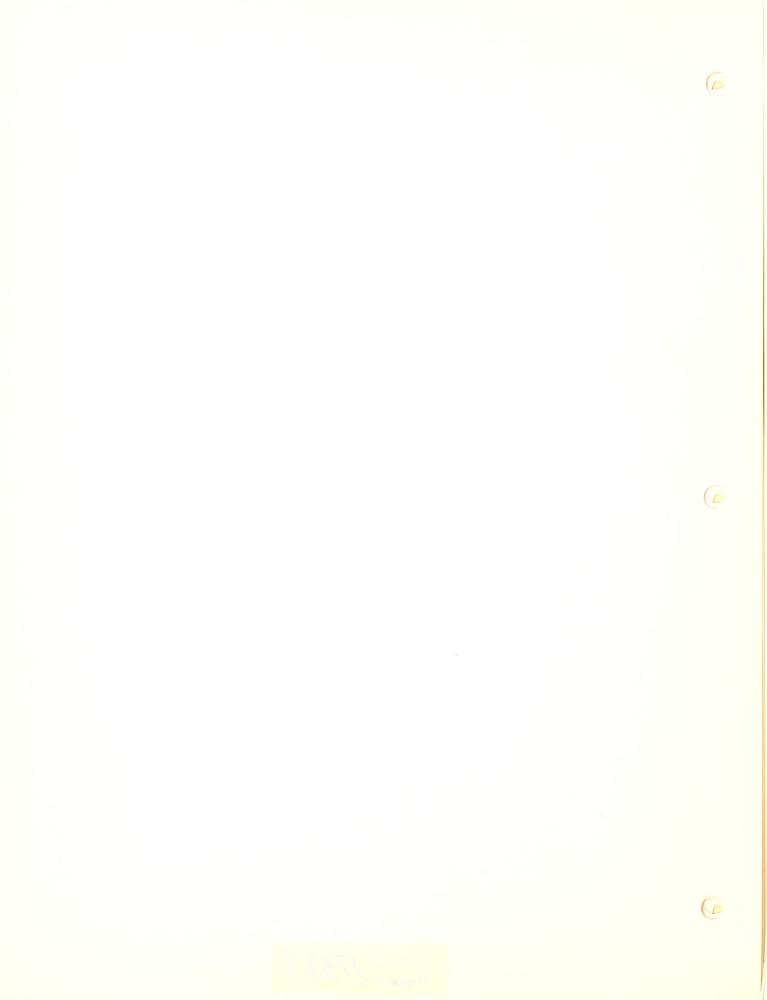
PROJECT.	OJECT SCS Experimen	periment.	Station	n, Tyler	. Texh	COND	SCS Experiment Station, Tyler, Texas	E STOR	TAIN CIG	LILL		N-OFFS	ON AT	INIOUS	AUN-UFES UN VARIOUS WALERSHEUS	6131	Š	SHEET. 11 OF 12 SHEETS
	WIV	Waverund				RAIMPALL	7			TRMFFRATIONS (dogress F)	Tight F.)		160	RUNINE				
Date	Number	A reas (acros)	Chages No.	Becom (hour)	Durstion (minutes)	Amount (int bcs)	MA bultimites (Triches and Butter)	Maligue interestry  Sominies Offindresses there are heart	30 Intimited	Macungan Minimum		Begen E (hour) (1	Ruded An (hour) ph	Amount Finction)	MAXIMUM RATE On R. sec Thins	Rainvair, Minus Runge (tarken)	BILT LOSM (folis per actri	Покитин пр Wareeiibd
1937	(2)	(46)	4-1	(8)	8	(2)		(11)	-940-			(12)	113	010	(16)	.17)	(In)	(19)
Nov. 18 Nov. 18	w4v	7-936	8 92	312FW 3106FW 2150FW	352	0.00	ส์ <del>เรื่</del> ก็ 0 00	0.16	0.10	ब बेब	zzz zzz							Fair cover of Legues with Jewes cotton stalks at the real of the r
Nove 22 Nove 22 Nove 22	W-4 W	7.936 5.747 1.570	20	2:30FM 3:23FM 3:23FM	नेमोना	0.20		1		35.53	ลลล	MRO MRO MRO						Transparent accorded in the control of the control
Dace 1	MM	7.936	28	10.2%MZ 1.4427M	001	0.07	0.12	0.12	0.08	8.11 8.41	88	MRO	~					Fair acrost of leaves, soil wat.
Date 1		5.71.7 Eo.	23	LG115 AM Lide FM	900	0.07	0.12	0.12	0.10	148 148	88	MO						Cotten dormant, soil melat, open. Do.
Ens. 1	22	1.570	검검	Lilian	120	000000000000000000000000000000000000000	2/2	80.0	90.0	1,18 1,18	25	NRO						Votel, C" Thir Oate !, good mass', firm; moint, firm. Do.
Pres 3	W 42	7.9% 5.74.1 1.576	ដូនិត	77.77	677		0 00	- - - - - -	00° 50° 50°	333	333	M.C.						an cover of leaves, the meleter of the first in memory is a first
Date : G	L=12	1950	.183	4 4 4	43.1	103	4 0 0	ali	900	23%	. 7							Fet. Cover of Leave, At Cate and Address of
Less 16 Dess 16	MM	7-936	ដូដូ	21 JUAL.	150	1.27	1,023	0000	1,10	577	177	Salt, DO.		8	No Eato DC.	0		Buit ecvor innreas out all ac
Dag. 16	44	5.74.7 5.74.7	974	21<2,333 41,3613	765	2200	2.76	0 1	1,08	57	47 6	mo 6.29F. 12	12:554.		10/10 89°9	0 (N	none	Cot on dor wat, soil moief, Prina
Duc. 15 Duc. 16 Duc. 16	NNN	1.570	12 12 12 12 12 12 12 12 12 12 12 12 12 1	211-21 311-20 443/PM	883	1.20 1.20 1.20 1.20	27.0 0.72 0.48	97.0 94.0 04.0	0°36 0°36 0°36	57 . 57 . 57	11 11 11 11 11 11	NRO 11155A. : 4100P.	214CP. 7100A		.01 12x20h.con		0. A.F.	Vote) 7" Ffor wor, firm, wet, firm, bo. bo.
Dec. 22	K) K) K) K) K)	7.936 7.936 7.936 7.936	888888	10.50PP 2.50AM 14.15AM 8147PM 4.35AM	200 200 200 200 200 200 200 200 200 200	6.001.000	10.00 cm	0.12 0.04 0.20 0.12 0.08	90°00 00°00 00°00	252222	822238 8	HRO HRO NRO Silt Box DO.		0.001	No Rato DC.	1.949	0-1:67	Fair covor leaves, soil saturated DC.
Dec. 28	MM	7-936	188	14/5AM	30	1.65 0.05 11.5	0.21	0.50	0.52	ੇਤੇ ਤੋਂ		DO.	00	0.001	o o o	3-408	None	DO.
	7277	*			(													

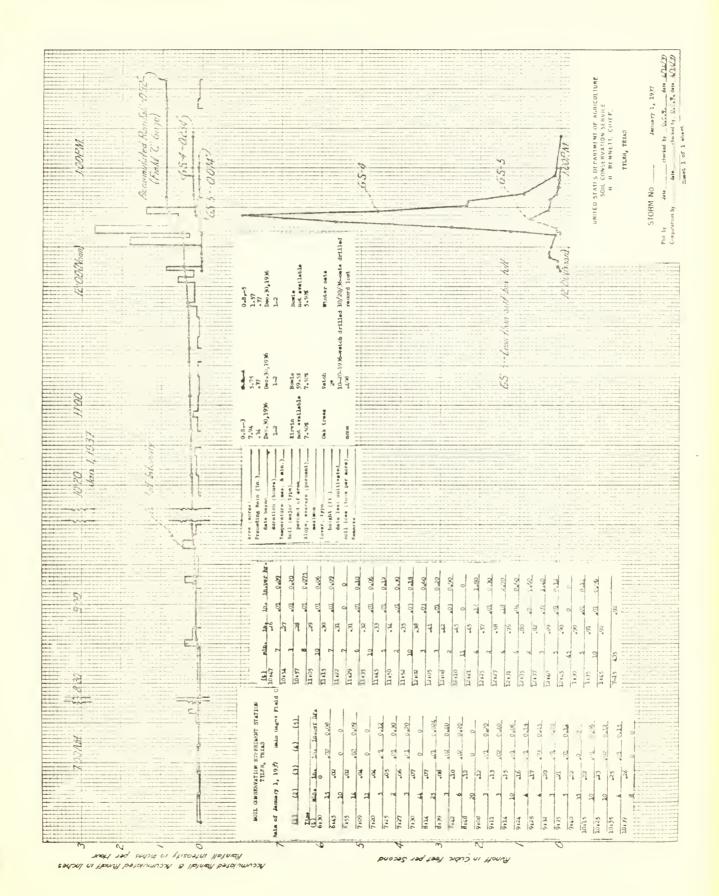


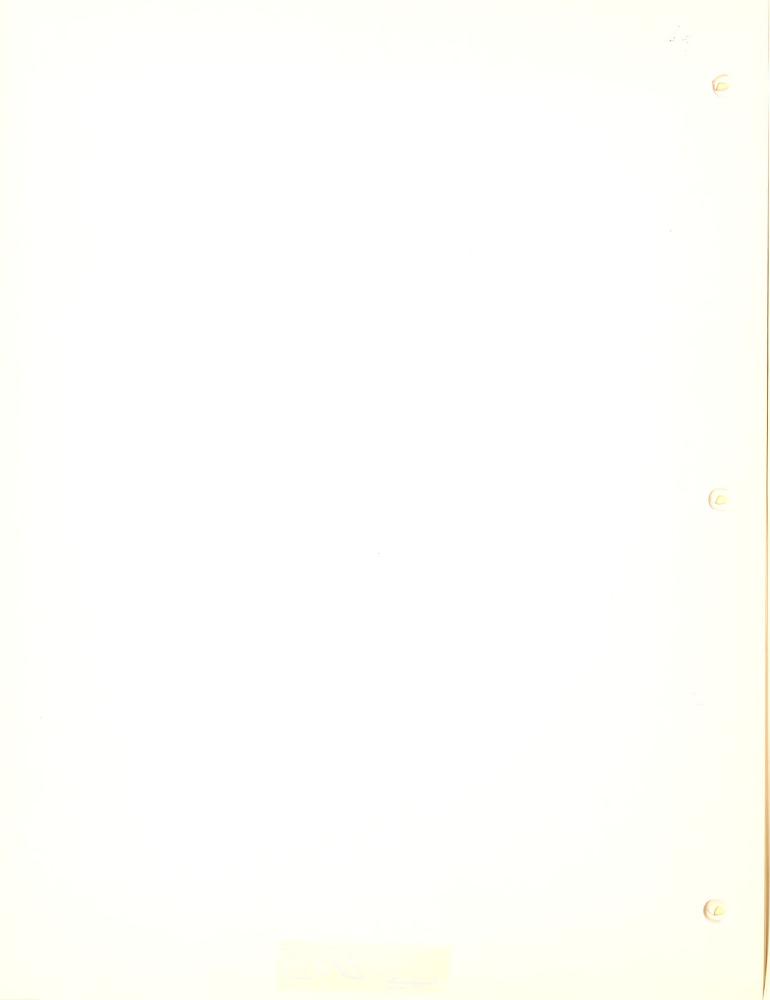
, 19.37

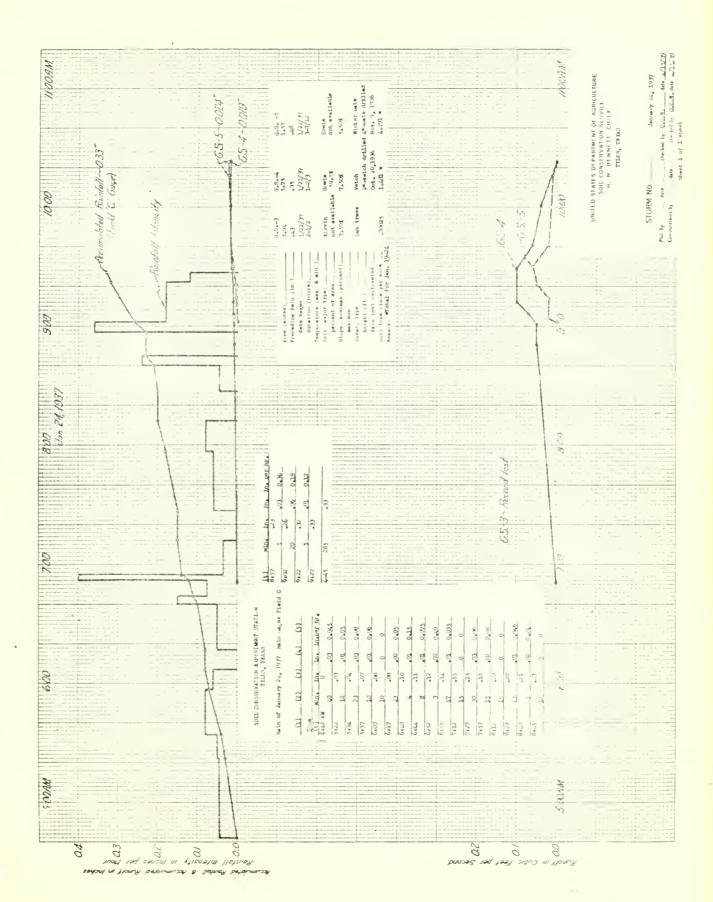
Month December

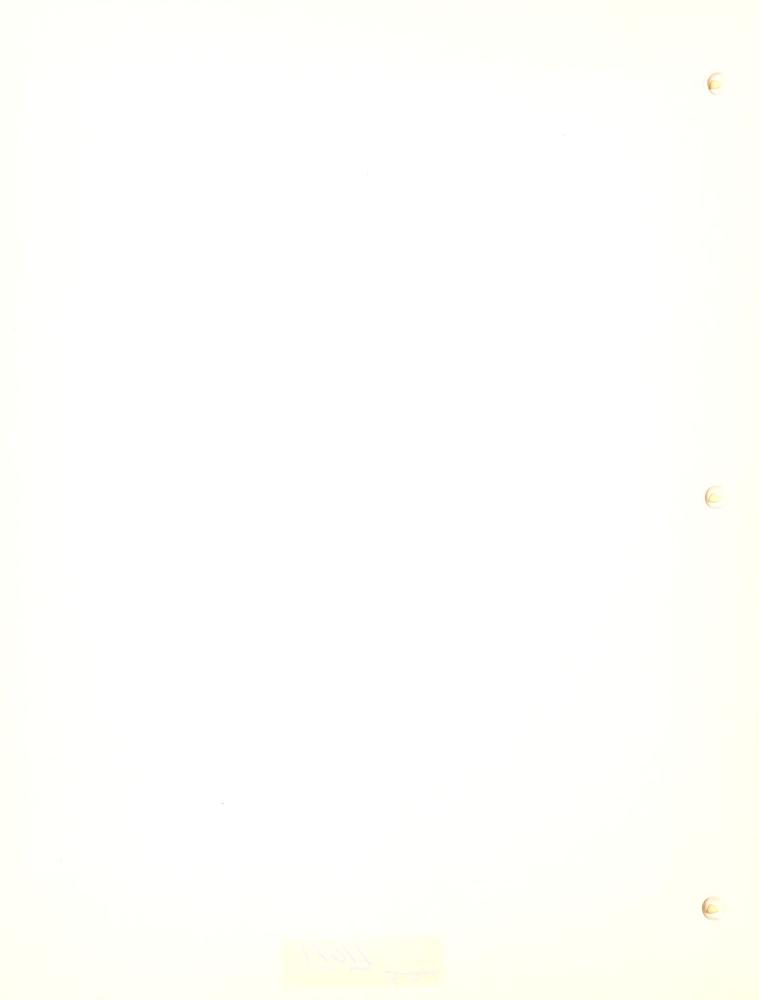
10133PN   2136AN   2136AN   2136AN   2136AN   2136AN   2135AN   2135AN	(d. 100)  (d. 101)  (d. 10
2 0 0 0 0 0	- 10 cm







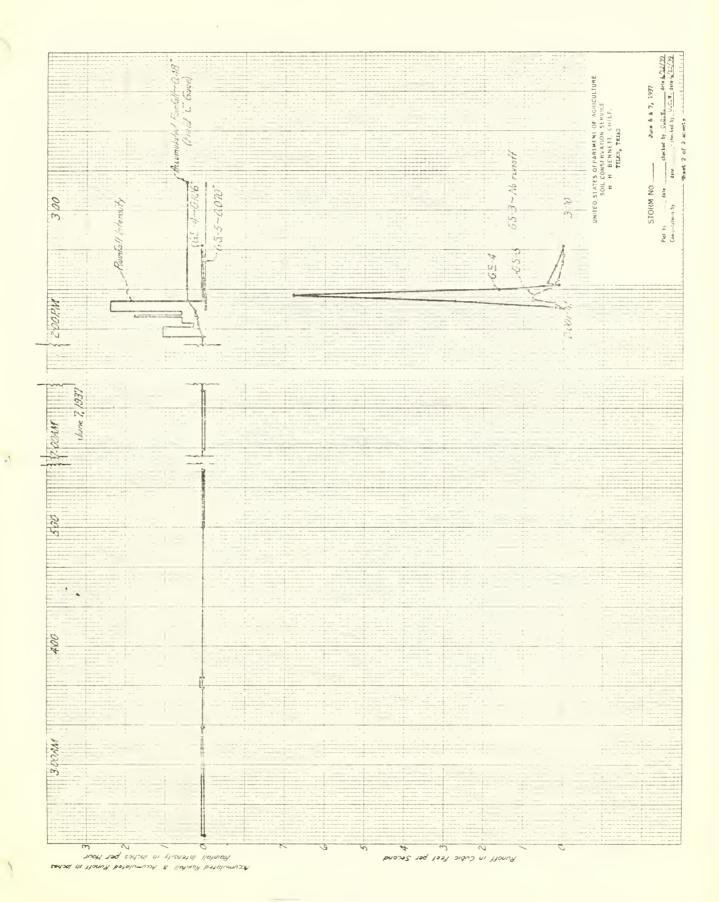


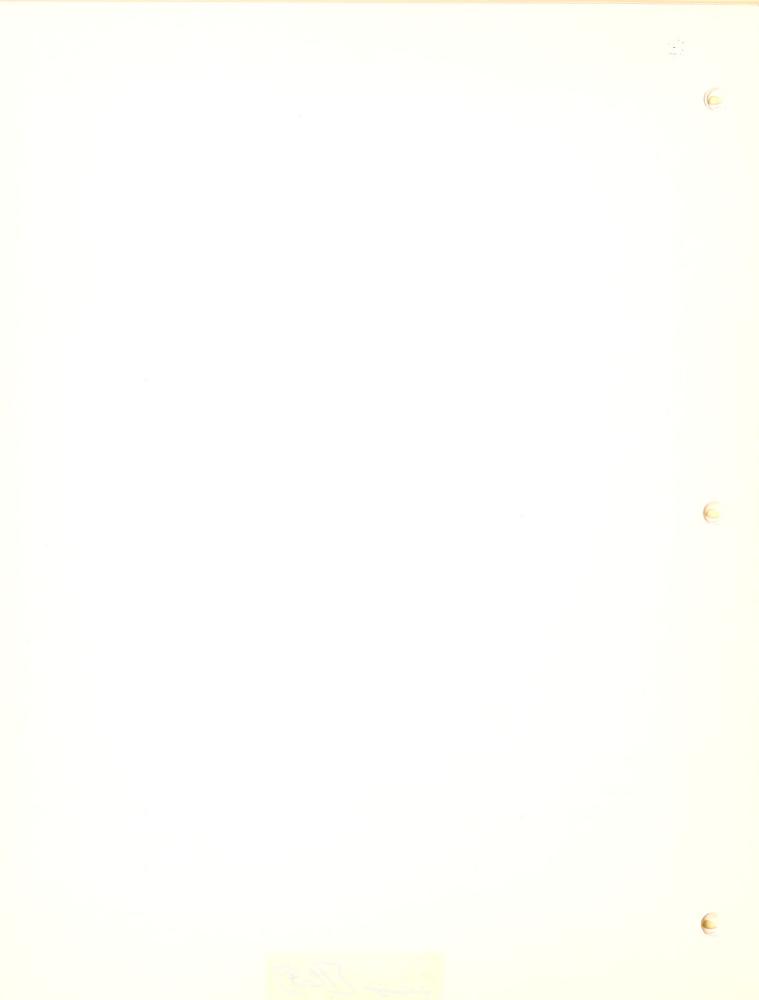


(E.O.Maon) KOZEM	Chaumosted Somist-117						0.05-4 0.75 4.43 6/437 6/437 18-436	7.50% 7.50% 5.50% Onk trees Octton 1/4:	UNIED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H. H BENNET CHIEF. TELET, TELAS	STORM NO
900 MAD June 6, 1237	hamily	J.6.5.4-0227	SOL COCHUNTOR ENFORMER STATION (1) THE THE TELESTER (1) THE TELEST TELESTER (1) THE TELEST TELEST THE THE TELEST TELEST THE TEL	16 June 6, 1937   Hain Gage! Field C   (2) (3) (4) (5)   (4)   (5)   (4)   (5)   (4)   (5)   (4)   (5)	2 .07 .18 & & .02 . 9 .14 . 119 .13 . 119 .13 . 13 . 13 . 1	13 404 9,49 1,1047 (8, 1,70 13 402 0,40 1,1047 (8, 1,70 13 403 0,40 1,107 (1,107 13 403 0,40 1,107 (1,107 1,107 (1,107) 1,107 1,107 (1,107) 1,107	21.6 2 .00 .00 .00 .00 .00 .00 .00 .00 .00 .	812, 30 0 0 maintain maintain 100 mills.  812, 40 0 0 corr. type lost with the fact of the sail of the	1000	Plat by Company
COUNT	3 Camfall bleastly		SOR OWSEWATIA REF. LIDAT STATES	(bain of June 7, 1997) [bain Chages Field C (1) (2) (3) (4) (4) (5) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	20 20 20 20 20 20 20 20 20 20 20 20 20 2	30 20 30 30	2006 1.03 2006 1.01 2107 2.02 2109 2.06 2109 3.06 2012 1.03 2012 1.03 2013 1.03	750	CODAM BECTAN	

Accumulated Roinfoll & Accumulated Runost in Inches

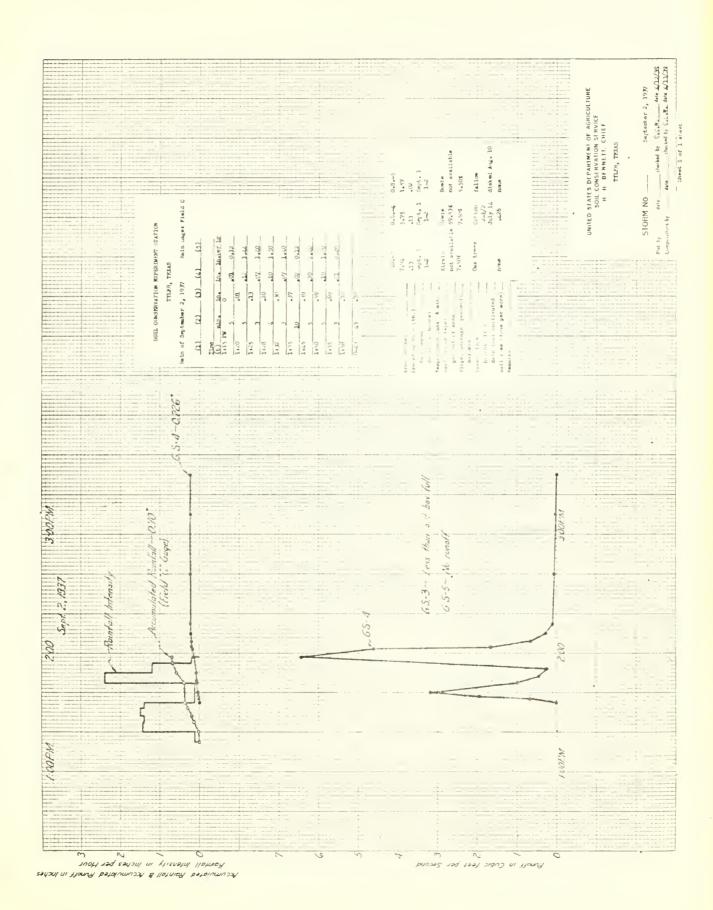


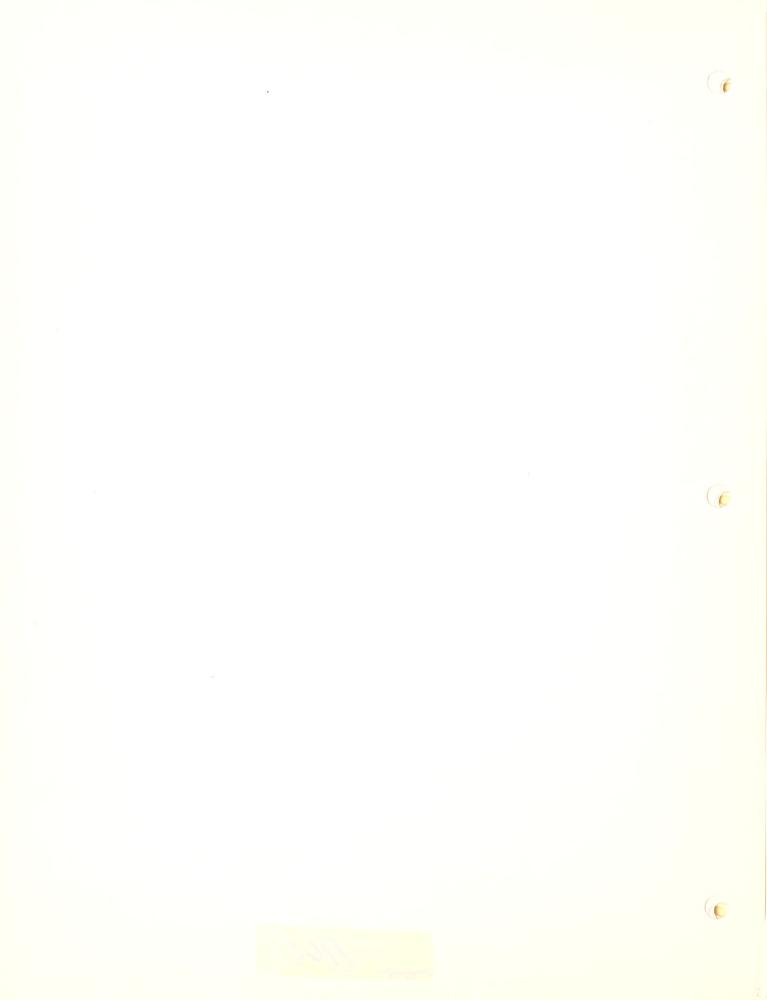


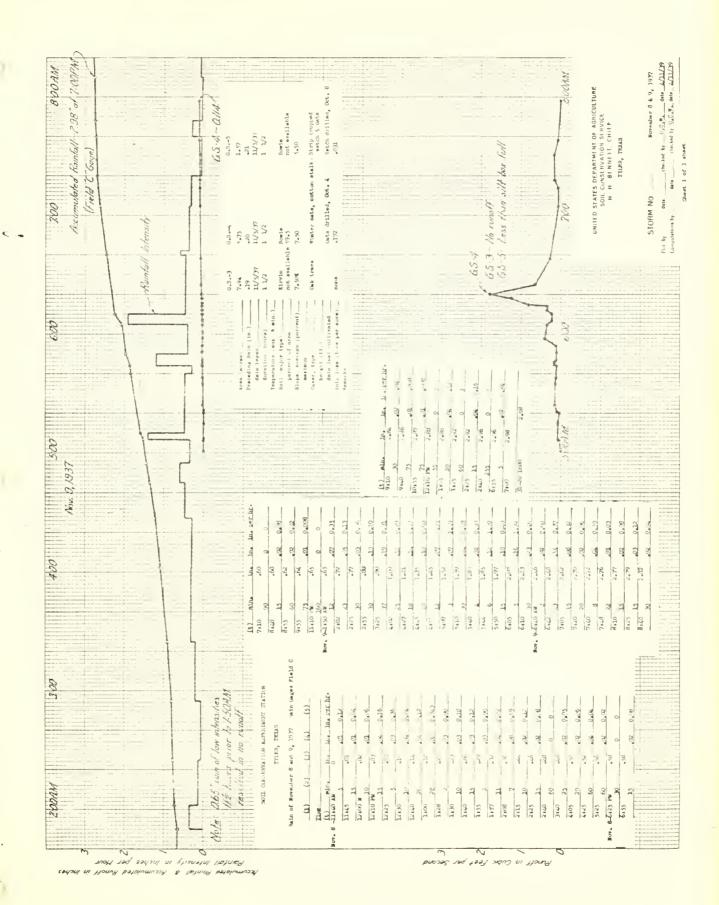


TREAS TREAS		2	1-3/6	UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SCRUICE H H BENNITT CHIEF TITLIF, TRUS STORM NO August 22, 2977
SOIL CONSERVATION I TILER, Halin of suggest 22, 1937	2		Arma norea presenting and	and the second s
Ang 224/2377			65.4 65.3 - 103 than sill 10x tol	3.700°M
				3490
	8 2		7 6 2	



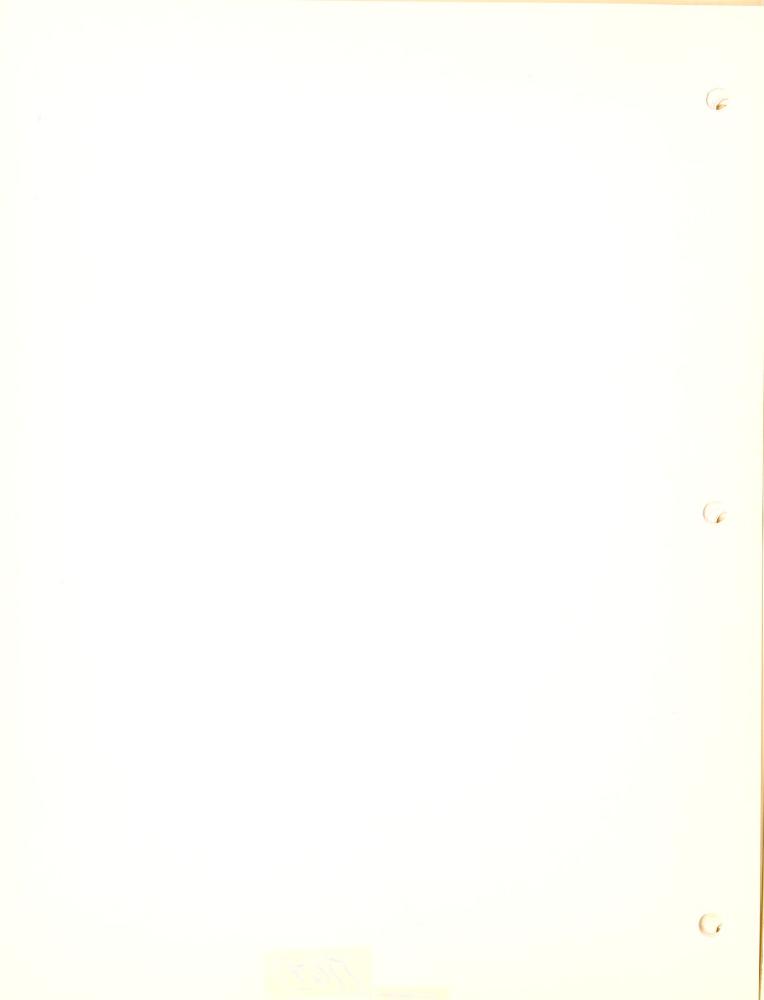


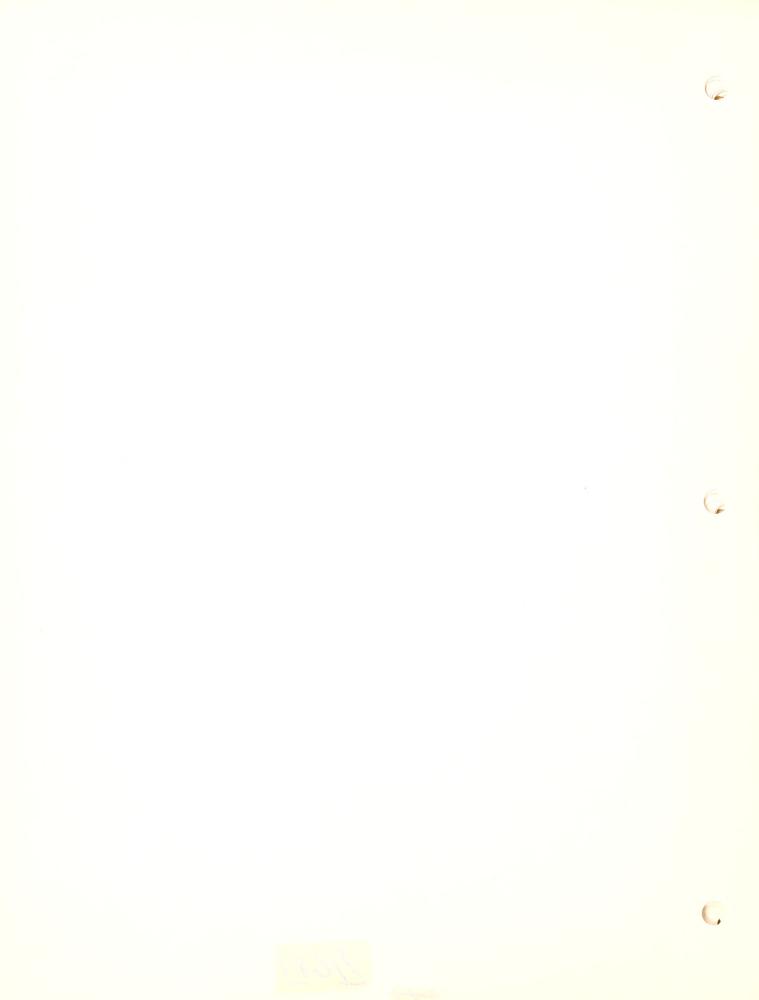




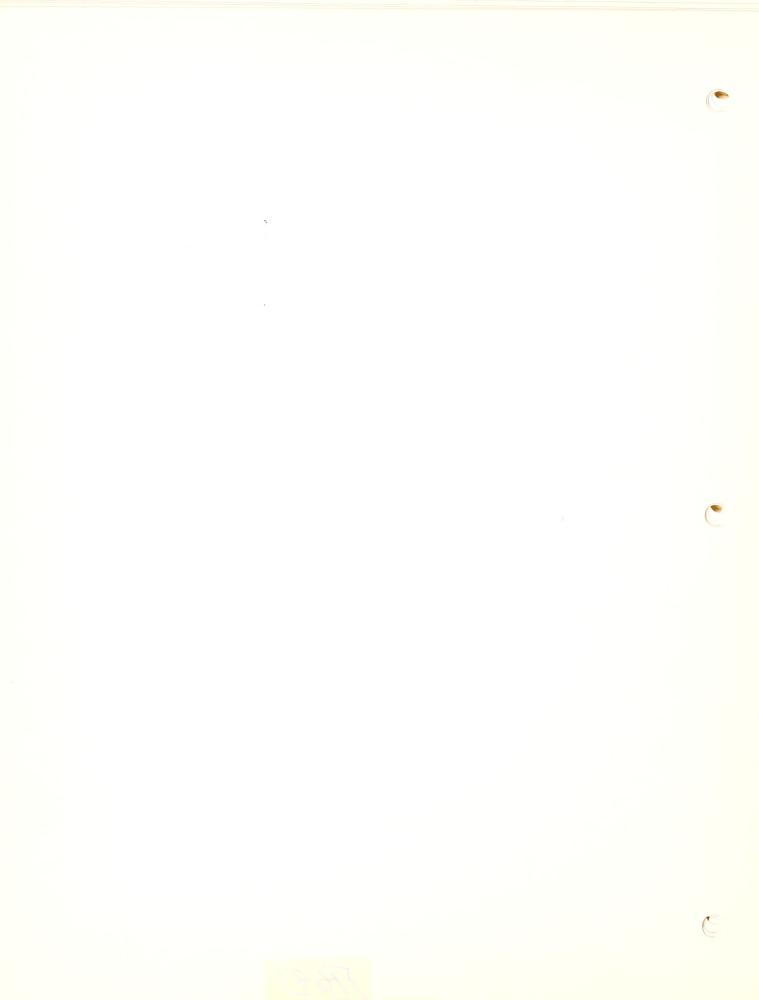


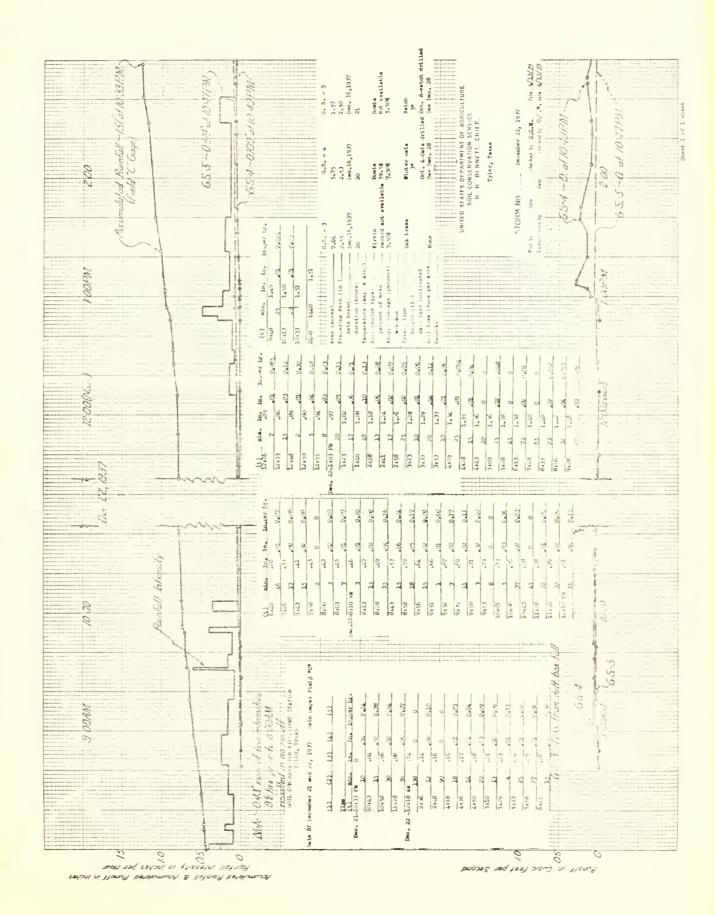
	rteman		00°0 00°03	2.53		ain.)	ated	10.10					-		
	Nambell Internsity	2.2 d. 2.2 d. 2.4 d. 2.		1650 2.53	Free (sorre)  Freesding Rain (in.).  Gate Defaultion (boure)	Soll ranjor type) persont of area Slope, average (persont)	ypo t (ft.)	Lone per acre.				\$2 \$2 \$3	white		
IC VIII boah	700	na ra	30	1650	Arsa (sores) Frscading Wali data began duration ()	Temperature Soil carjor percent Slope, aver	Sover, type height (	Renary				- \	C. Cross		
	L	(t) 10146 11149	11,23	27-30		e- 10 10									
		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	9.075 9.12	0,00	0.24 0.24 0.04	0.84 2.76	0. % 0.12	0.00	0.00 0.00	0.00	0.16	90.0			
		0 0 8 B	20	g 8 8	60,	23	£ 8	86 97	B 9	0 8	- 04 - 127	<b>1 1 1 1 1</b>	-		
Die 16, 1937		123	1.3	1.34	1.43	1.61	2,00	2.08	2,20	2,22	2,28	2016	2		
		(1) 144 143 143 143 143 143 143 143 143 143		2 7 9	9 9 9		7 9			2 2	15	2 7	-		
	5	(U) 3(1) 5(1) 61(6) 7(1)	BS 1.7	54.38	21.59 61.18 61.18	55 M	513	21.17	7128	B 18.	B2.10	Pac. 16-101-33 FW			
				2 2 3		727		0 4	7 6	9 6	7.	1		:	
\$		Ans Alla Por De		20°00 0	51.0		0000				5. Call	5 0,102	00001		
		49		59 59 50 50	2 2 2	60 03	et3 87	1 1	i	1,07	Ma 21.1	1.22			
				2 2 2	9 77 5	2 0 2					77	25 02			
		3AM	Sall Dec.16-8128 AM	8158	10.18 10.13	10,50	niu niu	Did Pa	22.46	561	1,50	2153			
		Clio orna of low intensities SM hours prior to BiSAM second consistent of the result of the red remover		-									8		
<u>a</u>		of low	(S)	3110 Min Mis 107 Dz.	0,03	0.24	92.0	0,18	0	9.77 9.775	0,18		200		
		hours Med's	1937 hatn 044	7 207		E. 80 5			1	1	73.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		2 22 22 22 22 22 22 22 22 22 22 22 22 2	1937	200	8 8 9	0.1	316	1 1		070		7.		-550.20	
		Motor Olio and of low intensities of the intensities of the house principle of 1380 and one one one station of the source station	(1) (2) (3) (4)	all s	27.00	9 9 9	2 7	2 8	7	01 8	20 00	77	W.		
		93	da or p	Dec. 15- 6113 PM	Dec.16- 2128 AM	3134	21.58	BS 1-4	5105	\$120	5158	6158	иваля		



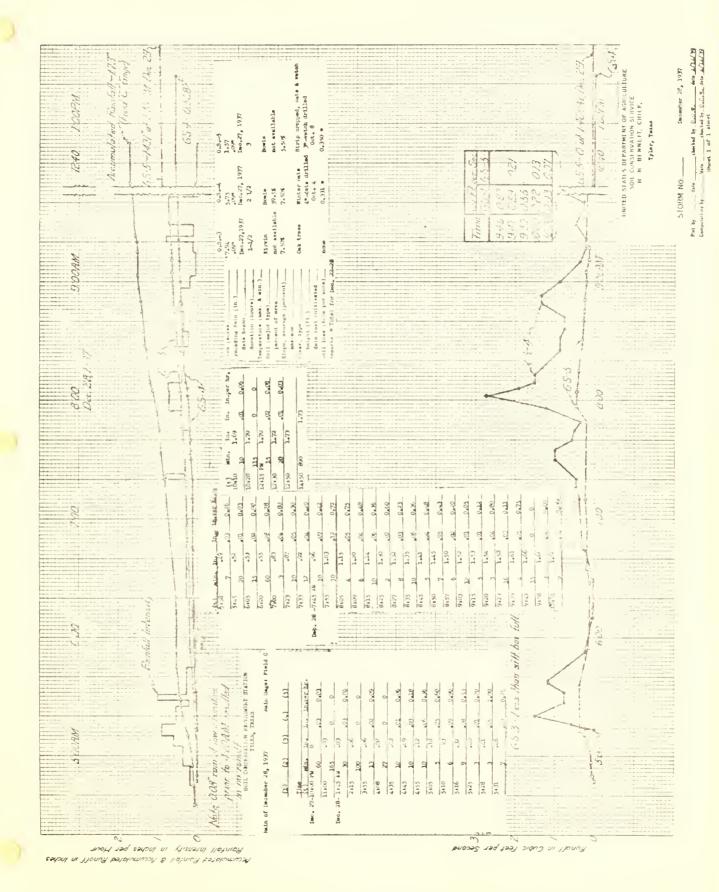


							1937
						URE	December 16, 1937 C.E. '10 LANS 0.C.W. deal 17.
						UNITED STATES OF PARTMENT OF AGRICULTURE SOIL CONSTRUZATION STRUCE H DENNETT, CHIFF, TTLEN, TRASS	ibe.
						RVICH IN F.	December Occasion
						NT OF ON SE T. CH	
283				4.1	. ==	PARTMENT OF FRVATION SE ENNETT, CH TTLES, TREAS	checked by
				7:00A.M.		OF PA	1
9				12 to		MTES I	
35				. 0		50 517	STORM NO
			 1 1 1 1 1 M	- 1	4:	UNE	STOR
				6.5.5	20×100		
4				3	-5-		2
	Ç :: :: :: :: :: :: :: :: :: :: :: :: ::			are N	, ==		
33	2						
Yana and a second	2 ====						
2	*				1		
	1.0		 		12		
	17				3-		
					12		
					65.7		
200					1.11		
					Cathal		
					3		
					1		
					1		
	180						
	takınsı't,			25.			
6				1	3		
9	13						
	Rain		-1		Ī		
					5.5		
				F:	12		
	13				12.		
	18	A CONTROL OF THE CONT			10 P		
	1			:	1		
			-1		-		1
					-		
					2		
					-		
8	111				-		

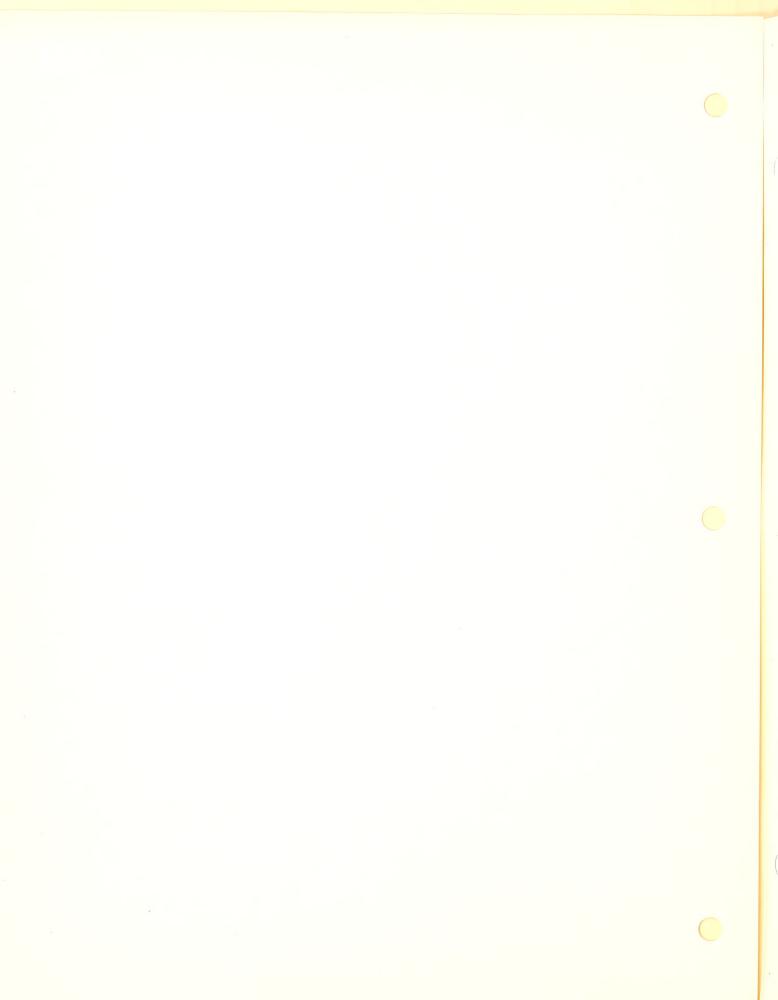












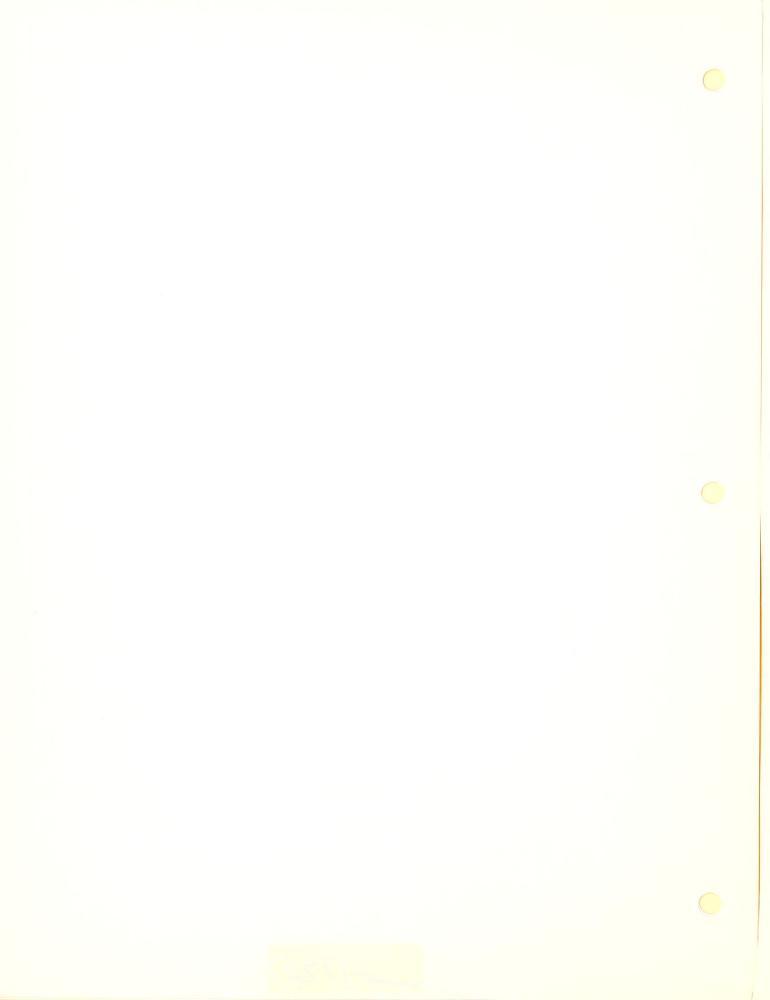
## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

06 01

Jenuary

MONTH

ā Cotton dormant; oats, good stand Cake dormant, good ground cover portly of the condition o Wolch Juffill wot, firm; outs SR Oaks Jonantigood ground cover of loaves. Cotypy domain; cats good stand, Oke dormant; good ground oover land, which is all work ground stand, fight man in well, it is onto the good example, good wet, give onto wet, give firm; well good wet, give in the content of the good, wet, give in the content of the good wet, give in the content of the good wet, give in the good wet, give i Cotten dermant; oats good stand. Cake dormant, good ground cover of leaves, soil wet. Cotton dermant, eats good stand Daks dornant; good ground cover Onka dorrant; good ground cover of leaves; soil wat. John dormantigod ground over the stand of th RHEETS Id-5" high, soil wet, firm Vetch 3" fair, wet, firm Oats 6", good, wat, firm Outs U"s goods nuts firm 13 0.6 н SHEET Sity Loss (tona per sore) 0.128 1,168 Mone (13) RAINTALL MINUS RUN-OFF (Inches) 2/ Jan. 24, 1958 0.616 2.502 00/13 (11) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 9116AU 9109AU 910CAN Time Kate MARINUM RATS (19 No Ou. ft and 3.18 3.26 (18) Jen. 26, 1938 450°0 2,960 1.018 1.659 Amount (Inches) (14) 7,2543 6153FM Knded (hour) Silt Box Laloan Laloan 3 ch9AM Begwn (hour) 9 NEO NRO MRO NRO NRO NRO 30/37 Thereastern (degrees F) Minlan 급급 印章 い。 333 RERERE ಡಡಡ 28 28 58 06/30 28 RR 22 333 33 33 33 5959 8 uninstee 18 minutes 30 minutes (facthes per hour) (facthes per hour) 0.10 0.10 0.12 1-70 0.68 (10) MAXIMUM INTERNETY 0.16 0.12 0.16 2.30 96\*0 3 3,78 7 0 0 0 ₹ 0 0 1.56 RATHTALL Amount (Inches) 21.0 0.07 3.52 3.37 0.02 5.39 0.01 0.02 3 Duration (minutes) 5x30FW 310 12105AN 585 Total 160 8155FM 105 1150FM 105 6150FM 105 1150FM 105 8150FM 105 593 28 767 338 630 10 5130FM 2 2105AM C Total 2105AM 3130PM 3130PM 3130PM 215AM 2130AM 2150AM 3140AM 32/10AM 6100FM PROJECT SCH Experiment Station, Tex-B2. 5.30FM Total M-10019 Total Lyler, Teras Breezes (9) Gagn No. 9 61 22 22 129 500 200 22222 19 12 10 7.936 5.74.7 7.936 5.74.7 1.57 7.936 5.71.7 1.57 7.936 5.747 1.57 5.747 7.936 7.936 5.747 5.747 1.57 7-936 A res (morres) 1.57 1.57 (3) WATERGRO Number ê 22 5 MUTU 225 ととすけると MIN MI win me + Jan.9-10 Jan.9-10 Jan.9-10 Jan. 22 Jan. 22 Jan. 22 Jan. 20 Jan. 20 Jan. 20 Jen. 22 Jen. 22 Jen. 22 Jen. 22 Jen. 23 Jen. 23 Jan. 23 Jan. 25 Jan. 25 Jane 5 Jan. 5 Jan. 6 Sa مرم Dave Jan. Jan.



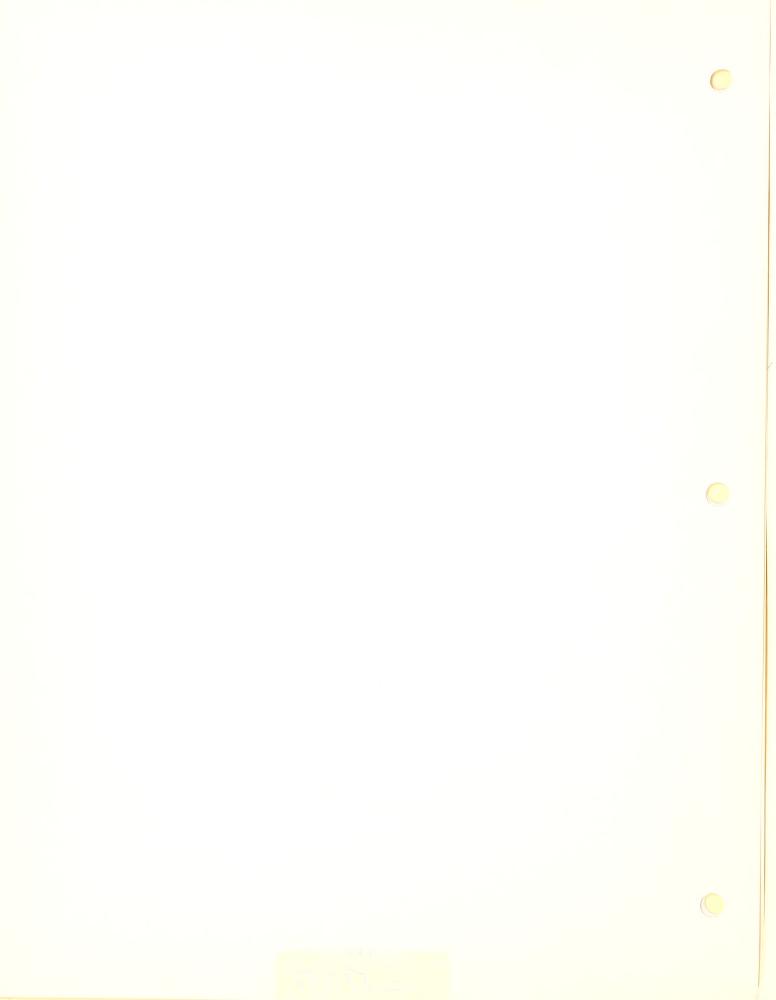
Furm 8. O. 8. -845

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19 30

Month Pebruary

Marked		WATERBEED	WATERERO			Bainvada	4		,	Tampanations (dogress F)			Веновя					
No. 10   N	Darie						M	AND INTERNATE			-	False F	Amount	Marinos		HUNGORY	Rity Loss (forte per acre)	
3   7-956   19   0-00	Num		Ongs No.	(hour)	Darwtion (minutes)		6 mignition (mobes per bour)	Is minutes 30 a (nothes per hour) (inches		moum Minhoum		(bour)	(Inches)	On R mo				
27.7.7.00 27.7.00 27.7.7.00 27.7.00		(3)		(4)	(0)	(7)	(X)			(11)	(12)	113)	(14)	(18)	(91)	(17)	(18)	(16)
		7-936 7-936 5-71/7 5-71/7 1-57				0.02 0.01 0.01 0.02 0.02			222000		MRO MRO MRO NRO NRO							Ouke dormant, good ground cover. of leaves, soll wet. Cotton dormant, cate good stand 2-7" high, soll wet, firm, cate Vetch 3", fair, wet, firm, cate 0-12", good, wet, firm,
						N					1 1							
																11		
										1								
				1			1											
										+			-					
										-						-		
						1		]										
	1											1						
		1											1			-		
The state of the s										\(\)				1	1			
			-			4	+					-					1	



Form 8, 0, 8.-848

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

, 19 38

Pebruary

MONTH.

bake in bud, fair ground over oction dormant, oatsround over your hippisol wet firm. dech 7 fairs soil wet irm, ats 6-12", good; soil wet, firm, HINEKTR Cotton domaintionts good stand 2-7" high, soil wot firm Votch 5" fair, moist, firm pate 8-12", good, moist, firm Sotton dormant; oats good stand bake dormant, good ground cover the stand cover the stand cover the stand stand the stand stand the stand Daks dormant, good ground cover of leaves, soil moist. 0-12", Ecod, moist firm; oats otoh 3" fair wet, firm; cate 8-12", good, wet, firm. Caks dormant, good ground nover of leaves; soil CONDITION OF WATSHIED E 3 01 30 SHEET Site Loss (tons per acre) None None None (1 h Bainwalk Minus Run-orr (Inches) 1,099 (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time (16) MASSEUR RATE Rate Cu ft sec. No (1.6) 0.021 Amount (factions) 9 Rrided (bour) S11tBox NRO NRO NRO Began (hour) NARO NARO NARO NARO NARO NRO NRO NRO NRO NRO MRO '[61,741] 78762 61934 2/ Fob. 17, 1930 Temperature (degree F) 900 = 8 . . . . . 3= = 78/62 See e e e 8 . . . . . . . 77: : | B minites | 18 minutes | 20 minutes | (inches per hour) (inches per hour) (inches per hour) % % 000 0.28 8000 000 0.34 0.34 (10 Мактичн інтикатт 2/ Feb. 17, 1938 0.68 0.04 0.30 0.56 3 13°0 1.08 0.48 1-14 0.26 (H Feb. 17, 1938 Amount (Inches) 0.03 90.0 0.70 00-16 00-12 00-15 6 Duration (minutes) 5:21;74;7.180 10:31;14;125 10:41;1 9:11;44;355 9:11;44;355 10: 37112 4.15 10: 35114 1.20 220 233 9 5 2 2 PM 5 2227M PROJECT SGS Experiment Station, Tex-R2 Tylor, Torne Began (bota) 7 Gage No. 222233 2222222 53 23 100 7.936 7.936 5.747 5.747 1.57 1.936 1.936 1.537 1.537 1.537 1.537 7.936 7.936 5.747 1.57 A rea (acres) 1.57 WATERBEDD 20 Feb.17-18 Peb. 17 Feb. 16 Feb. 16 Feb. 16 Feb. 16 Feb. 16 Feb. 16 Feb. 17 Feb. 21 DATE



Form 8, C, 8,-8

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

		WAY	WAYearing				RAISPALL				Tempunatus (degrees F)	a FURE & F)			<b>К</b> ри-ост					
1.25   1.27   1.25	DA70				-			A	Annual interest							MARINU		RAINFALL MINUS HUN-OFF		
1		Number	Arm (acres)	Usgre No.		Doration (minutes)		8 rateutes factors per facer)	is minutes the per hour)	No infinites (finches per bour)	Madmin	Minhoun	(pohr)	(frour)		Ou. ft. sec.		(tite Des)		
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		<u>(3)</u>	(3)	(4)	(8)	(9)	(2)	(8)	(6)	(10)			(13)	(13)	(14)	(18)	(16)	(17)	(18)	(19)
1	1	20	7.936 5.71/2	10			5000				83	3	NRO			1				COUNTY OF THE PROPERTY OF THE
1		7	1631	7			Cnan						MKO					-		6-12 good; soil wet, tirm.
9 1 7.096 19 0.005 10		K-410	7.936 5.747 1.57	692			0.07				19	12	NRO MRO MRO		-					Onker of budgetripped ground Onker of lake ground Cotton Cotton of many foats consistent March 12th call work from Octon 77, talrised I molect from
9 1 1 5.747 10 0.059 0.0		2	7.936	19			0.04				\$	ItB	NRO							Oaks in bud, fair ground cover
10   1   17.936   19   19.178   172   20.77   2.75   1.241   0.509   22   1.05   1.0		7-7-	5-747	312			0 0 0						MRO	1				. +	T Page of the later	Cotton dormint joats, good stand
10   3   7.936   19   0.037   172   0.92   2.76   1.24   0.93   0.2   0.62   1.24   0.95   0.62   1.25   1.26   1.27   1.27   1.26   1.27		non	1.57	22.23			20 a					E   8	NRO					1 1		Votch 7"fair, soil moist, firm. Oats 10-14", good, soil moist, firm
22		m 35	7-936 5-747	19 10 12	8,13PM Br09FM 8,12PM	172	0.92	2.64 2.76 1.80	1.24	0.98 94 0.82	82	677		11 pl2PM	640.0	1.93	10°57P		0.041	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		m2 10	7-936 5-747 1-57				aa o ผม พ				Ft. =	8	MRO						* ************************************	Cate in bud; Fryagis Shalify in Cotton of the state of th
21   3   7.936   19   6.10014   120   0.650   0.550		K	7-936		11.532	1405	1.90	1.68	1.52	1.06	57			7.57AM		\$00	6.18AM			oats 10-14",g5od;soil moist, Oaks in bud,fair good ground oover of leaves;soil moista
Total   Tota		JKK	7-936		5.2013 6.4013	37.8	9 9 9 14 8 K	0.60	2000	0.18	11	-		2158PL		*18	7.10PM			Ditto
23		, 4	5-747		Total 1	مدرا	1.83	1.63	1.48	1.08	57		4.31AM	7:3000	0.114	2.57	4.47.426	2.846	0.013	Cotton dormant, oats good star
27   5   1.57   12   12:02.34   120   1.65   2.04   1.32   1.02   57   53   1.13244   9.2244   0.037   5.13544   2.037   0.0356   2.037   0.0356   2.037   0.0356   2.037   0.0356   2.037   0.0356   2.037   0.0356   2.037   0.0356   2.037   0.03		4-4-	5.747 5.747		8,50AV 5,20Py	201 05 201 05	6.23	0.36	0.14	0.00	. ##		6e45FM	8,58PM		20.59	7115134	1 1		8-20" high; soil moist, firm. Ditto
27 5 1.57 12 6145AM 105 0.21 0.24 0.24 0.18 77 55 6145FM 9rduPM 2.57 7:17FM 2.84 5.95 1.57 1.2 6145FM 9rduPM 2.57 7:17FM 2.84 5.95 1.857 1.2 6145FM 9rduPM 2.857 7:17FM 2.84 5.95 1.857 1.2 6145FM 9rduPM 2.857 7:17FM 2.84 5.84 1.84 77 55 6145FM 9rduPM 2.857 7:17FM 2.84 1.84 1.84 1.84 1.84 1.84 1.84 1.84 1		1 10	1.57	1	Total	750	82	2002	1.32	1.02	57			9122AK	129.0	0.37	513611	2-333	0.856	
30         1         7.936         19         Total         2.393         2.304         0.104           30         1         5.717         10         0.03         10         0.03         10         10         0.04         0.04         10         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04         0.04		NNN	1.57		8145AH 5121PH 6156PH	503	0.24	70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.24 0.40	0.20	. 22			9rouna	( )	2.57	7:17FM	1		Outs 10-20", good; soil wet, firms Ditto
31     3     7     936     19     0.06     0.05     77     58     NR0       31     5     1.e57     1.2     0.04		2 1 2	7.936 5.747_ 1.57		Total		2.93 0.03 0.04				62.		NRO NRO NRO		0°636			2.304	υ-1/η-0	Ones in leaf, tair cover leave with the leave with the leaf wet. First following, were good strictly local leaf wet. Veton 10-10, see sold wet.
			7.936	19 10 12			0.06				EE.		MRO WRO							Ocke in lack fall cover langer & Cole Cover langer & Cover langer



## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19.38

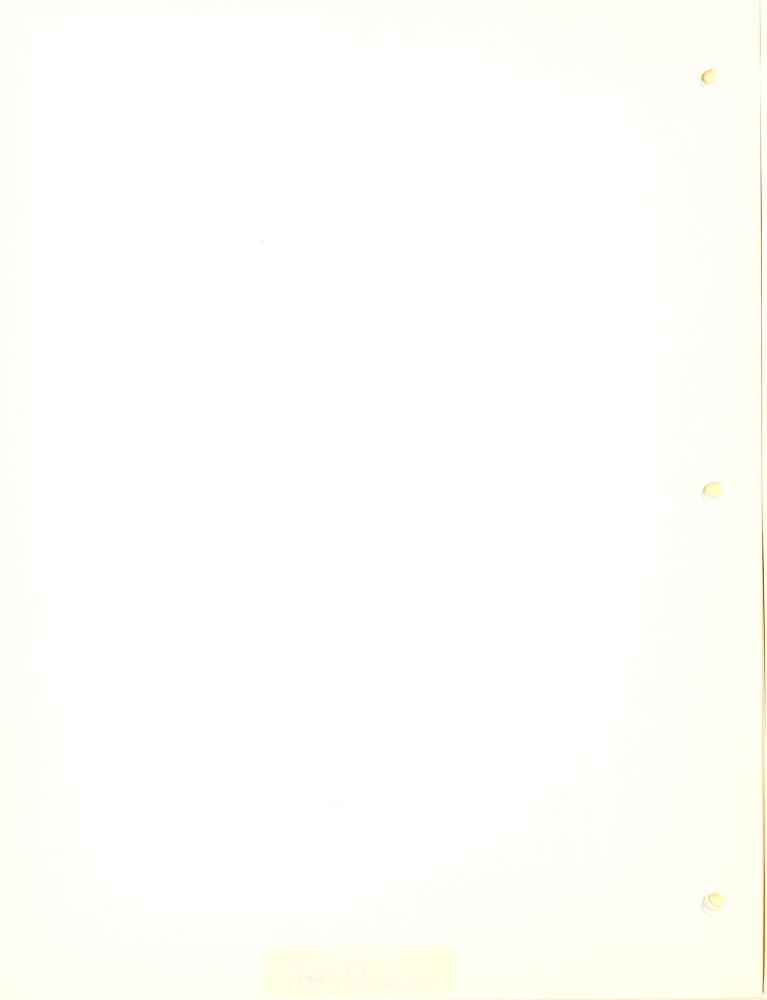
Apr 11

MONTH

DIVISION OF HESEARCH

Rete in full longifeir cover he well and the full longifeir model loose. The full longifeir wer, it from the full longifeir wer, over longifeir wer, it from the full longifeir were full longifeir we Vetch 16-20", goods moil mut firmjouts 18-50"goodssellwat,firm Oaks in All leafifair comir leaves.

b underbrushs and I week the second second for the second secon derbrubhiod moint.
The plexing moint firm.
Lecodisol moint, firm. Recently discentaged model, bose-Vetch 16-20° goodseal wet, firm. Oats 18-30° goodseal wet, firm. Oaks in full loaf, fair cover blowes & underlively, and in other Settled after plowluggeds, time yetch, 22-2, "stoodsseal wet, firm. Oaks in full leaf, fair cover of leaves & underbrish, soil wate. L'm. Cotton dormant; cata good atond 10-20" high, soil wut, firm. full leafyfair gover underbrashpeotle BHEETB Cotton dormant; oats good stund 12-21" high, soil met Leaves & underbrush, soil met. Onks in full leaf, fair cover COSTITIOS OF WATERAISED 17 90 15 firm SHEET 0.019 Mone 0.023 0.110 Str Loss (tons per sore) 0.203 None 0.018 (18) Raterata Misus Run-orr (Incless) 1.675 0.326 1,109 0060 1.07 (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 12 sh3 No Rate 0.15 2:30 0.88 2:32 12 e/1/1 Thus :91) MAXIMUM RATE Rate. Rate 2/ April 16, 1938 11.9 19.0 Ou ft sec. No No (18) 0.005 9x54274 0.047 1x24442 635 0.210 0.130 0.021 0.001 Amount (Inches) 3 12:41 PM Salisan anded nour) 6 Silt Box Silt Box 2:191% 1:577% Silt Bdx PR37AM NRO NRO NRO Began (hour) (13) NRO NRO NRO MRO NEO NRO NHO NRO NRO MRO NRO Takpanarcius (dogram F.) 61 61 発現 2222 222 333 33.3 333 663 222 50,00 61 April 6, 1938 88 828 78 28 222 222 222 यथ य 878 222 2223 83 1 No minutes inches per hour 0,88 1,00 300 30.0 0.90 0°90 0°34 0°24 150 00 00 05.0 91/0 MAXIMUM INTRODUCT 15 0.00 1.32 0.04 1-10 1 % C 1,52 0,60 0,28 0.80 1.40 0.92 <u>@</u> 8 minutes solves per house 2.80 3.12 1.32 0.36 0.96 3/ April 6, 1938 3.00 3.36 85°8 20.00 2,28  $\widehat{\mathbf{x}}$ RAIMPALL Amount (Inches) 38.8.8 0.12 17°0 0°22 0°25 0°25 1.68 0000 0,01 Duration (minutes) E83 58 75 100 145 2718 28 300 30 Total 3/ Total 1/7 11.59th 5 £55FM 2 £00AM 5155PM 7120AM PROJECT SCS Experiment Station, Tex-82. 5155134 2 15AM 7115AM M-1991 7 x 30 AM MJ0020 3,12AM 3112AN 3412AN 1 1087 Total Tyler Texas Total LIOBPA rotal Hogan (hour) 1/ April 6, 1938 Clags No. 19 10 19 10 12 19 222 15 15 10 10 12 27 52 93 10 10 7.936 5.74.7 7.936 5-747 7.936 5.7<sup>1</sup>17 1.57 7.936 7.936 5.747 1.57 7.936 5.71,7 7.936 5.747 1.57 7.936 5.747 1.57 1.57 A real 1.57 1.57 WATERBER 8 444 SON 20 m =50 M tum MILM nutur 500 50 5 50 ---~~~ 225 15 Apr11 15 17 56 26 222 8 8 8 D471 Apr 11 April Apr11 April April April April Apr11 April April



Form 8. O. 8.-848

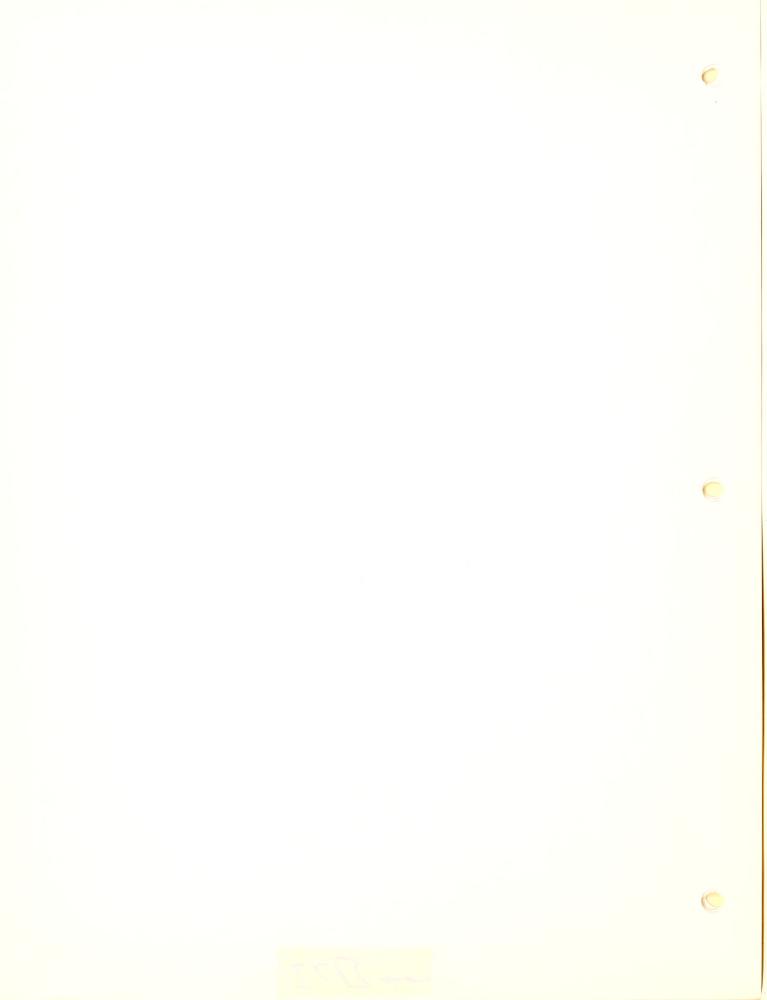
### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19 38

MAY

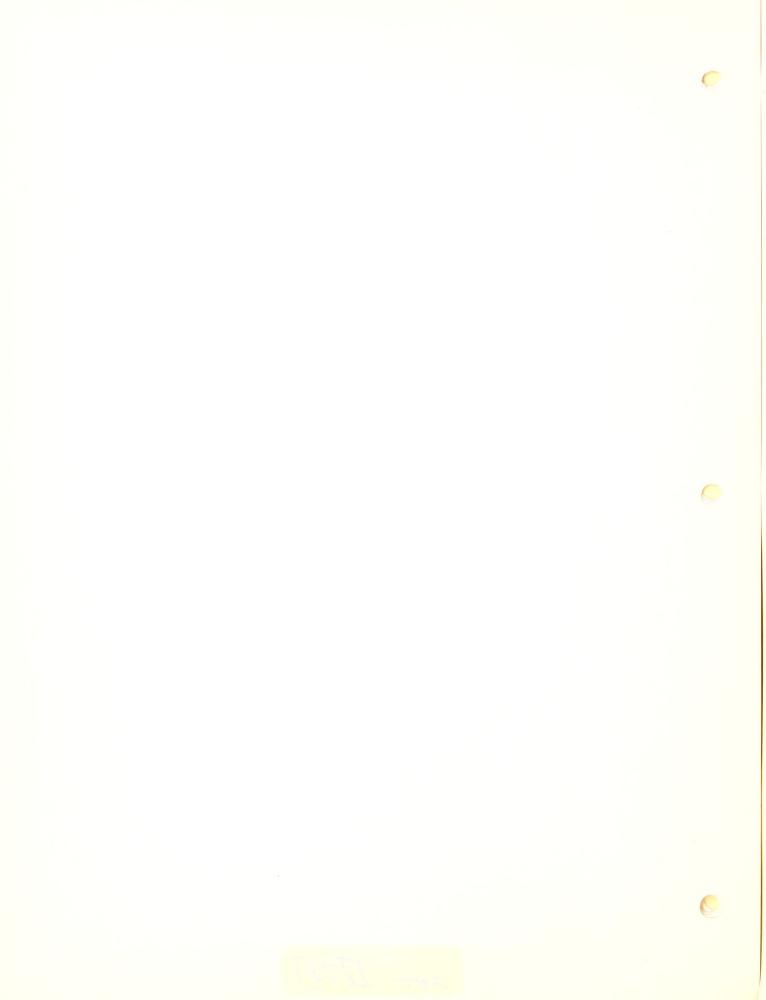
MONTH

Cake in full leafsfair ocver loams t underbrush; soil moiste Settled after discing; Recently plant, doll mole fall nos Cake in full leefiful over leaves a underbreshied leaves a underbreshied light so the State Cotten empregaged under loose Outstubble Sysoil moist, Numer Take in Full long later cover the Recently discondance of the secondary of Cake in full leafifulr coror locuses & underbrucklesch moleta Recently diacediscil moint, open Recently planted, cull moint, loose. Cake in full leafifulr cover leaves de upderbrabled modet modet Cotton very poor;soil moist, open Out stubble 8°, soil moist, firm. SHEETS plowedy Ditto CONDITION OF WATERBEE 13 40 9 SHEET Bur Loss (fons per sovs) (18) RAINFALL MINUS EUR-OFF (inches) (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time 91) MAXIMUM RATS On R sec. (10) Amount (include) HUN-OFF (14) Foded (hour) (81) NRO NRO NRO NRO NRO NRO MRO MRO MRO Regnan (hour) NRO NRO NRO NRO MRO TREFERATORS (dogress F) 333 888 333 223 888 ğ 62 82 82 333 222 63 63 883 5 minutes 15 minutes 20 minutes 15 minutes per bour) (inches per bour) MARINUM INTERNETY ê (8) RAINTALL 0.50 Amount (toches) 0.00 0.00 % श्रम \$ 500 6 Duration (infautes) 0 PROJECT 808 Experiment Station, Tex-R2 Tyler-Ione Began (hour) 9 Hage Na. 3 993 120 120 593 6.93 7.936 5.747 1.57 7.936 5.71.7 1.57 7.9.56 5.71.7 1.57 7.936 5.747 1.57 7.936 5.71.7 1.57 A res (acres) るよう ろしょう ラサラ るける きはら K K K May 13 May 13 May 13 May 17 May 17 May 17 May 23 May 4 Days May



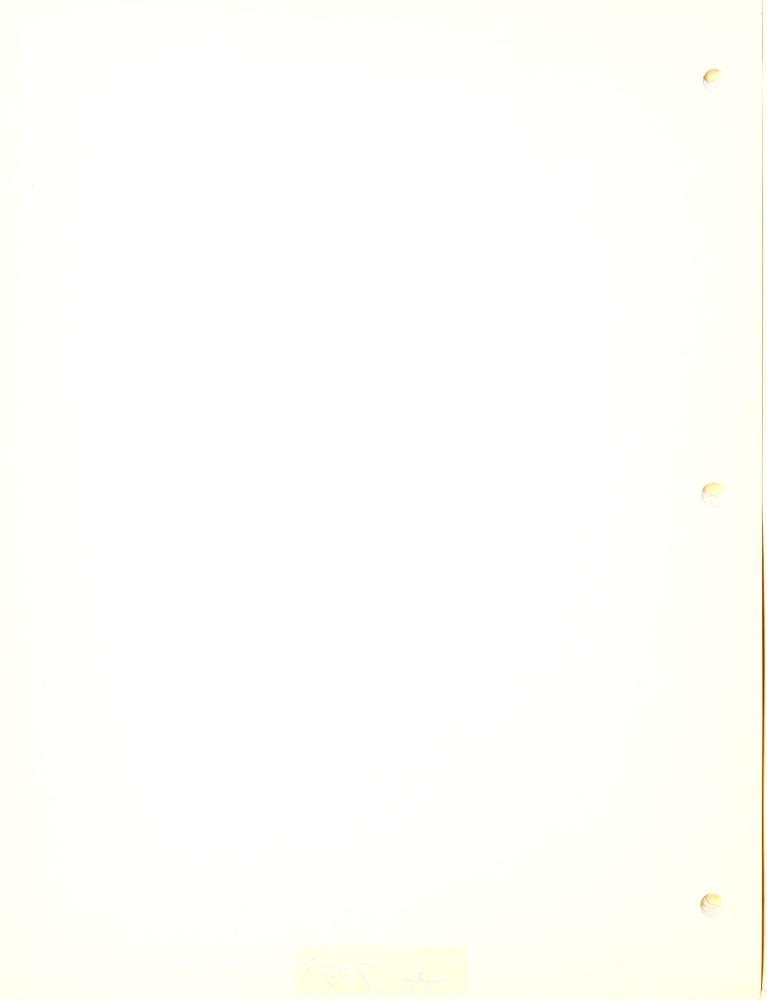
## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF MESCARCH

	WATER	9				RASHWALL	4			TRAFRATORE (degrees F.)	a F.)		4	KUN-OFF					
Dave Z	Number	Arm (acres)	Oags No.	Begna (Bour)	Daratua (minutes)	Aunemat (Tachem)	(the the test of	Marinum ferramerry  Businates  Businates (Refuse per hour) (Inches per hour) (Inches per hour)	30 mirutes (Inches per hour)	Mastrumo Minimum	Minhum	Page B (bott)	Poded A	(lindaeth)	MAXIMUM I	RAYS Time	Raineale Minos (Inches)	(fone par ecres)	Оонитом от Wavenabed
5	H	(3)	9	(9)	(8)	(2)	(8)	(6.)	(10)			(12)	18)	(8.9)	(18)	(16)	(37)	(18)	10)
June 1 June 1 June 1	W-1 R	7.936. 5.747 1.57	223	5117AU 5117AU 5117AU	878	1.39 1.51 54.1	5.22 11 14.56	7.03 3.1.03	2.38	87 87 87	2.22	Sichar 5	20.03 X	0.003	No Estu 10.61 5 0.51 5	A Paris		10-10-	The Third I profit of the solution of the solu
June 8 June 8 June 8	ntm ntm	7936 5.747 1.57	61 63			\$0.00 0.00 10.00				구수두	9 9 9	NZO NZO EDVO							at a course or fort, other items.  Saka i, full, other dower of families of a constant of the families of the forth of the families of the fam
June 10 June 10 June 10	<del></del>	7.936 5.747 1.57	19			0.13 0.12 0.08				88 98 98	<b>रेहेरे</b>	NRO NRO MRO				110			Control of the contro
June 11 June 11 Jure 11	מבת	7.936 5.747 1.57	66 87			0.35				888	888	MRO MRO MRO							Cake high loadhi i no cr C naisteanna gol a no ma ch Cortina di dad a high adalah Cortina di dada di high adalah
June 17 June 17 June 17	W4 W	7.936 5.747 1.57	100		210	0.10 0.10 0.00	0.12	0.08	90.0	78 78 78	22 22	MRO							The service of the cost of the
June 17 June 17 June 17	KWW	7-936 7-936 7-936	223	3122FW 61201M 01355M	10 180 70	0.57	1.44 0.96 1.08	9,00	**************************************	78 78 78	70 70 70	MRO MRO MRO			<del>} ,</del>				Oaks in full low's good ower of unde brush, soil maint
June 17 June 17 June 17	444	5-74.7	000	Total	10 158 67	0.00	1.80 1.20	1.00	\$ 000°	78 78 78	70 70 70	1						x : 1	
110 17		.57		rotal	15	0.15	96*0	09*0	0.30	7.8	-	11t Box		0°023	No Rete	.	12,221	0.128	Cotton 3-4", good; woll moist
June 17	22	1.57	22	Total	189	0.52	3-12 0-72	2.12	1,08	78	5 07 	ilt Box		0.019	No Rate		1,601	50000	loose. Out stublie 8" soil moist, firm.
June 18 June 18 June 18	10 th	7.936 7.547	129			0.02		1		888	70 70 70	NEO NEO	1.0						Cake in full lonfigood cover of conjustive property of the company of the conjustive standard of high grain cotton july good seal moleculoses
June 29 June 29 June 29	275	7-936 5-747 1-57	19	,	ì	0.05 0.05 0.05	,			444	17 17 17	NRO NRO NRO				1 '		14.19	Oakg 'h 'ull lanfigod oever of universityelf egit han de large of ontithe Covposity of the Cotton 8-10", fair;soil dry firm ont stubble (miscal dry dry thme
				11		11			*								1	ļ	
1	-																		



## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

Cowpean fair stund the property of the coupean fair stund the stun Cowpeas, fair thing the property of the control of the control of the control of the company of the control of Onto 1. Ail 1 to 1 to 2 over und corror at the corror at t Cotton 18-24", fairfacht dry, firm Cat ton 18-24", fairfacht dry, firm Cat atubble 8", soil dry, firme Oaks in full leafiffood oover under 2 BHEETB , 19 CONTITION OF WATCHING Cownian, full attachange 33 40 My ø MONTH. SPERT fins Loss (tons per sors) (1 H) Itun-ore (inches) (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time (10) Manueva Rare Ou ft and. (18) Amount (tachas) (14) Riplad (heat) NRO NRO NRO NRO NPO NPO NRO Regen (hour) MRO MRO MRO MRO MRO MRO NRO WRO NRO NRO NRO 2110 NHO Tourseatings (degrees F) 72 22 222 222 222 555 222 223 222 83 222 222 ਤ ਤੇ ਤੇ 888 888 888 路路路 30 minutes (larkes per bour) (10) MAXIEUM ISTORSTY finities the four) (faction jet bear) 8 Ê Amount (locber) 0.02 0000 0.00 0.02 777 0.00 0.07 0.05 3 Paration (minutes) 9 PROJECT SCS Experiment Stations Tex-R2, Tyler, Texas Hegan (hour) (9) Ouge No. 523 3 223 120 222 593 10 10 12 223 599 7.936 F.747 F.57 7-936 5-747 1-57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7-936 5-747 1-57 A IN (mone) WATERABBD Number 245 m= m さたろ m = 百山ら m to m-tu July 9 July 9 July 9 July 15 July 15 July 15 July 23 July 30 July 30 July 30 July 13 July 18 July 16 Auly SS Auly SS July 17 July 17 July 17 July 21 July 21 July 21 DATE



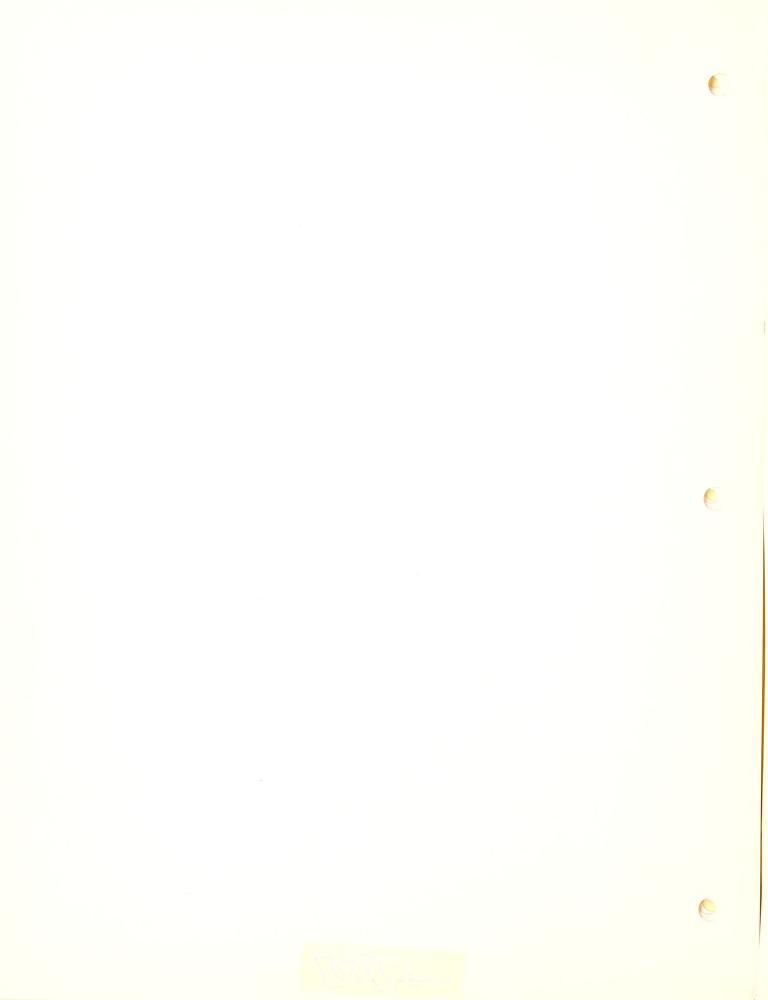
Form 8, C, 8.-848

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF PERSEARCH

119 7

MONTH August

										-							9 a supplied to the supplied t
	WATELOGO				Валичала	3			Tuerenarum (charum F.)	100		Roment					
Data	Arra (arra)	Ongs No.	Began (bour)	17cm of fee (int) enulose)	A rockers)	MARINE de inferetos (livelos par four)	on Larran	No notinizina Inclass per bourt)	Maximum	Ministra	Įĵ.	Finded Amount choirs) (barkes)	ैं	Three	RAPEAL MINOS -ILUN-OFF (Rother)	(form join nows)	Оомитом ов т. атвынав
(8)		(9)	(9)	(0)	6	(a)	9	(10)	(III)		(11)	(11)	(10)	(91)	(10)	(18)	100
000	3 7.976 4 9.747 5 1.57	253		1	0.01				ਜ਼ੌਜ਼ੇ ਜ਼ਿੰ	हंहद	WRO MRO						Cars as a filter of spect of year Composes the first of t
100	7.936 4 5.747 5 1.57	22 19	TO SOLITE	22	1,05	5.16 4.92; 5.76	3.92	2, 24 20, 24 20, 24 20, 24 20, 24	67 87 87	222	SiltBox 1.0777 SiltBox	0,001 14,1174 C.171 0,064		No Jate 1,-81 1; 1/1; No Nate	1.04.9 0.94.9 1.21.6	None 1.036 0.075	Compourage of cover compourage of the compourage
21 21 21 22 21 22 21 22 21	7.936 1.5.747 1.57	12 19	2135FW 2135FW 2135FW	52 55	1,52	4.32 5.04 2.64	3,20 2,20 2,20	2.70 2.70 1.76	888	525	211tBox 241912 215614	0.003 7.51114 0.551 14.10114 0.097	10	No Hate 73 Skolfy 946 3117FM	1.4697 0.969 1.073	0.0004 1.938 0.081	Cake in full leafifeed gover under Compeas, Marie 18 18 18 18 18 18 18 18 18 18 18 18 18
222	5 7.936 5.747 1.57	120			0.01				8 8 8	223	MEO MEO MEO		1 1				Cake in full heargood gover underwhom hold mode.  Corporate the second mode.  Cotton 2, seir soil mode, firm.  Cat stubble 4, soil mode, firm.
								The state of the s							,		
								1 1		13				1			1
															1		Walter and the second s
										.		1					
			Į i								H						Proposition 1. The state of the
				!						1				1	9	l.	
								-	1			-	-			1	
								1	1								
-						1	1		ł					1	ĺ	į	
1																	
11						<del></del>			. 1		- V Johnson	. 1	-			And the second second	
1											-						



Form 8. O. S. -845

# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

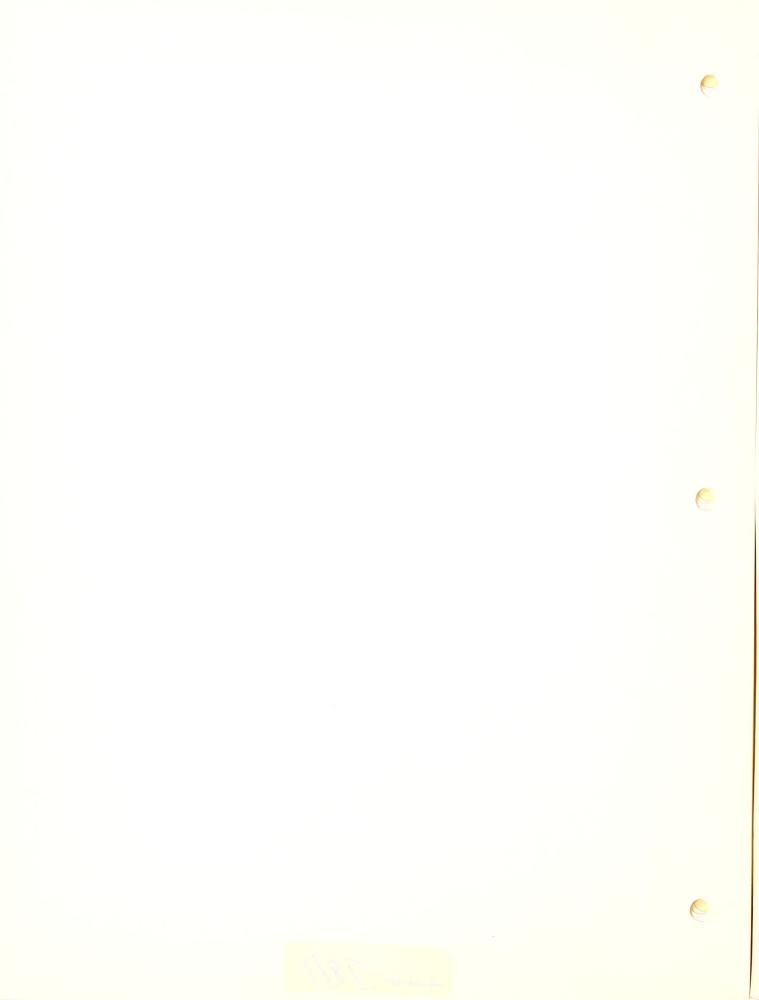
, 1938

Sapt ouber

MONTH

Cote in this lightent cover un-plantable of the dry.

Oblight dry, cover of the co Datas, no hall lands fair cover volunt are seed a kines 3 dimer cover to the fair seed and the seed to the fair state of the fair state of the seed to the fair state of the seed to the s SHEETS CONDITION OF WATELINED or 13 10 SHEET Sur Loss (tons per sure) HAMPALL MINUS HUM-OFF (fluches) (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS Time MAXIMUM BAYS (36) Ou ft mo. (15) RUN OFF Amount (toches) **?** Finded (hour) 133 Hegna (hour) MRO MRO MRO MRO TRESTRACTOR 222 RRR Ē 69 69 222 denotes to minutes (notice per hour) (inches per hour) 0.78 (10) MAXIMUM INTERNUTY ŝ 23.00 (8) RAINFALL Amount (Juebas) E 00.00 0.39 Duration (mlunter) 9 នឧង Phoincy SCS Experiment Station, Tex-ES. 1, 1, 2, 2, 3, 4, 1, 2, 4, 4, 1, 2, 8, 4, 1, 5, 8, 1, 5, 8, 1, Began (boatr) (8) Gagn Ne. 120 5033 7.936 5.747 1.57 7.936 5.747 1.57 A res WATERBRED moth 8epte 11 Septe 11 Septe 11 Sept. 14 Sept. 14 Sept. 14 DAYR



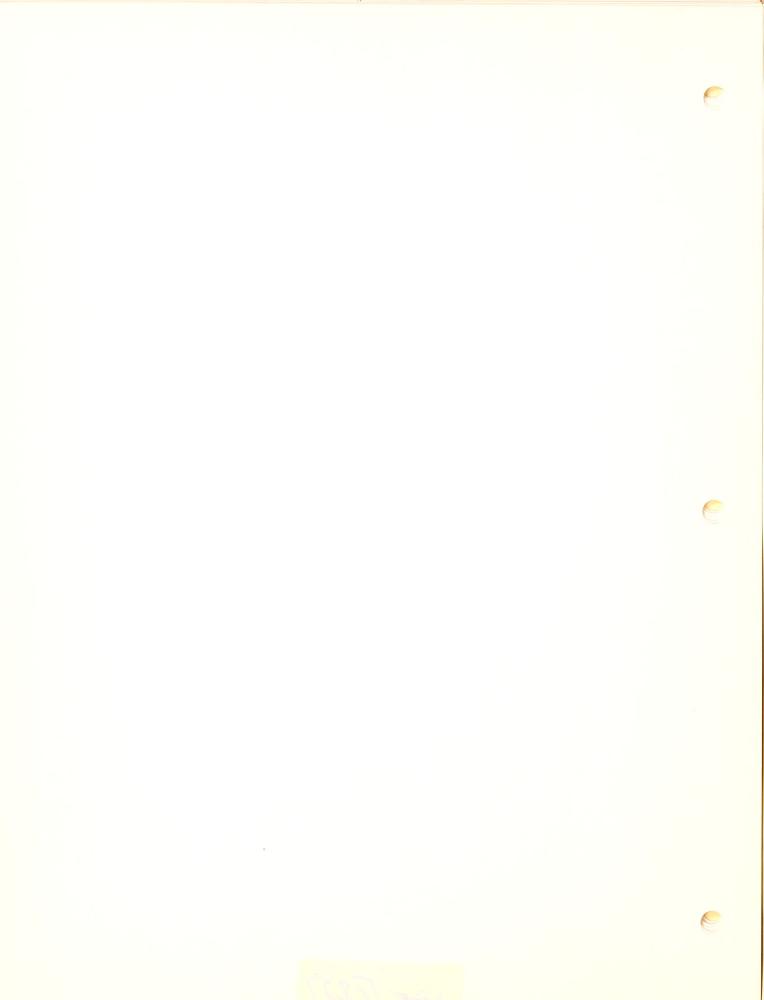
Form 8, 0, 8-848

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSETVATION SERVICE DIVISION OF RESEARCH

19 30

Month October

Oaks 14,6915-188 1311-4897 or Oaks recently planted soil dry Recently planted soil dry 1086 or Becontly plemed soil dry 1086 or Cake in full loafffair cover underbruch; soll dry tracently planted; soll dry tracently planted; soil dry lose MIRETE CONDITION OF WATERABLE Ħ MO. 11 Sur Lien (tone per sore) Rainvall Minus Run-ovn (inches) (17) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS MARINUM RATE Thus (**16**) Ou. fl. sec. (10) RUNGER A mount (Inches) (14) Protect. 93 URO NRO NRO NRO NRO NRO NRO TREPUBLICATORS (Chagrens F.) 222 उं उं उं 888 919 6 coficutes to minutes 30 coloutes (incluse per bour) (10) MAXIMUM INTERNATIVE Amount (loches) 8 2 2 3 1000 000 (minutes) ê PROJECT 503 Experiment Station, Tem-R2 Dags (bus) 9 Chaga No. 3 6 9 8 10 110 7.936 5.747 1.57 7.936 5.747 1.57 A Pea actros WAYERSHIED Number きまち るけら Oot. 17 Oot. 17 Oot. 17 888 DATE Oot.



Form 8, C, 8,-848

### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

19.20

November

MONTH

Cake partially dormant, fair ground onver leaves; soil moist. Oaks partially dormant, fair ground cover leaves, soil moist. Bittd Ditto Data good stand. I'high, Brira Date 1 talfate oil wet firm; Bare Cats good stand, l"high, soil dry SHEETS Outs good stand, saturated, firm Dittolm, fair, soil saturated. firm; bure - saturated, firm. Date 1" fair; soil dry. open 13 dare, soll dry . firm 0 2 Ditto Dit to Ditto Ditto SHEET fitz Loss (tons per sore) 1.481 0.013 1.505 0.012 None None HAPPEALL MINUS 1/ Nov.6,1938 1.729 1.327 2-435 1.915 2,081 (13) RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS 12 July 12:07 Time MAZIMUM RATH (16) Rate Rate Rate 12.89 10.6 Cu ft. per No 9 (17) No 0.015 0.001 0.463 3/ Nov.7,1938 11s45AM 4851AM 0.219 0.035 Arnount (toches) RUN OFF 12,3214 6,05AH Kaded (hour) 311t Box Box Box Began (hour) NRO NRO 111 Transmartina (degrees F) 53 23 53 22222 22222 22222 22222 92 78 78 222333 なななない 0.88 0.94 0.30 84888 1.16 0.26 0.30 0.30 1.14 0.30 0.30 0.30 0.30 0.12 (10) 1.50 1,68 0000 0000 0000 0000 0000 0000 1.52 2.12 0.32 2.12 0.60 0.08 0.10 0.16 ŝ 3.60 3.36 38 27 3-1,8 0.74 ê RAIMPALL 010010000 010010000 01000000 01000000 30000 ST 242485 00000 00000 177 00000 Amount (inches) Paration (minutes) 302 233 501 500 23223 61/15AN Jorhestal Total 12,16F2 2,18F2 7,425F2 10,45F2 3,06A2 Total 10,58AM 12,21FM 2,20FM 8,37FM SGS Experiment Station, Tex-R2, Tyler, Texas 81/13AM 10:52AN 12,16P 2,20N 8,15P 30,63P 3,05P Begran (hour) 19 61 200 23 22222 22222 22232 Oage 5.747 7.936 7.936 7.936 7.936 7-936 1.57 1.57 A res. 50 NUNNIN PROJECT. Nov. 3 20000 10000 1000 Nov. 3 DATE Nov. 3 Nov. 3 Nov. No. Nov. Nov. Yov. Nov. Nove Nov. Nove NOA. No.



Forts 8, 0, 8-848

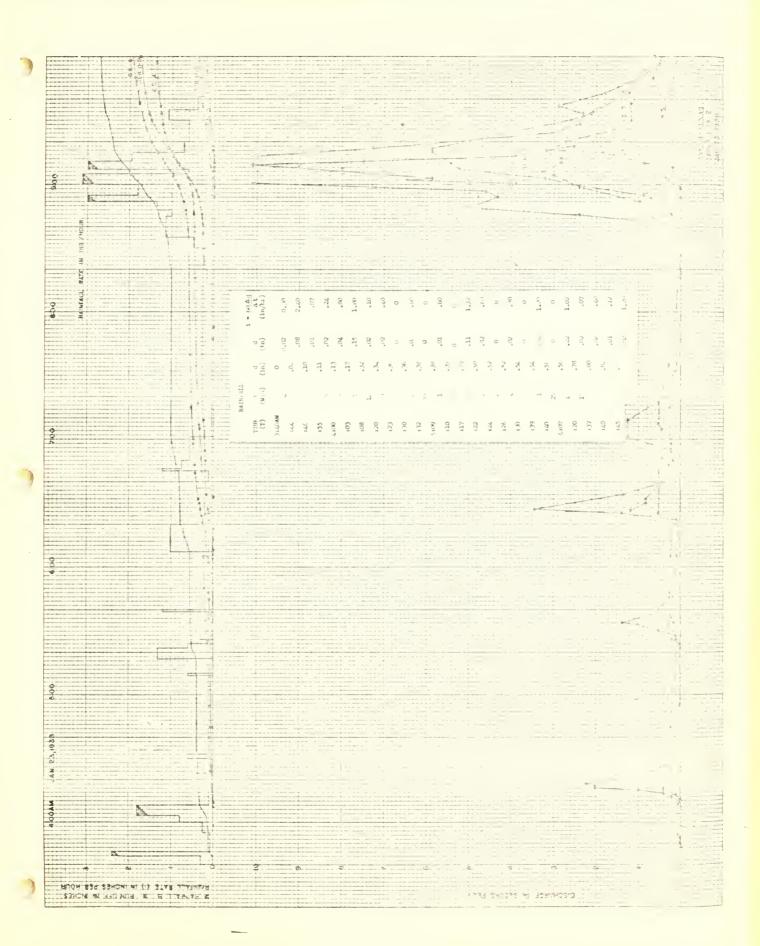
### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE BIVISION OF REMEARCH

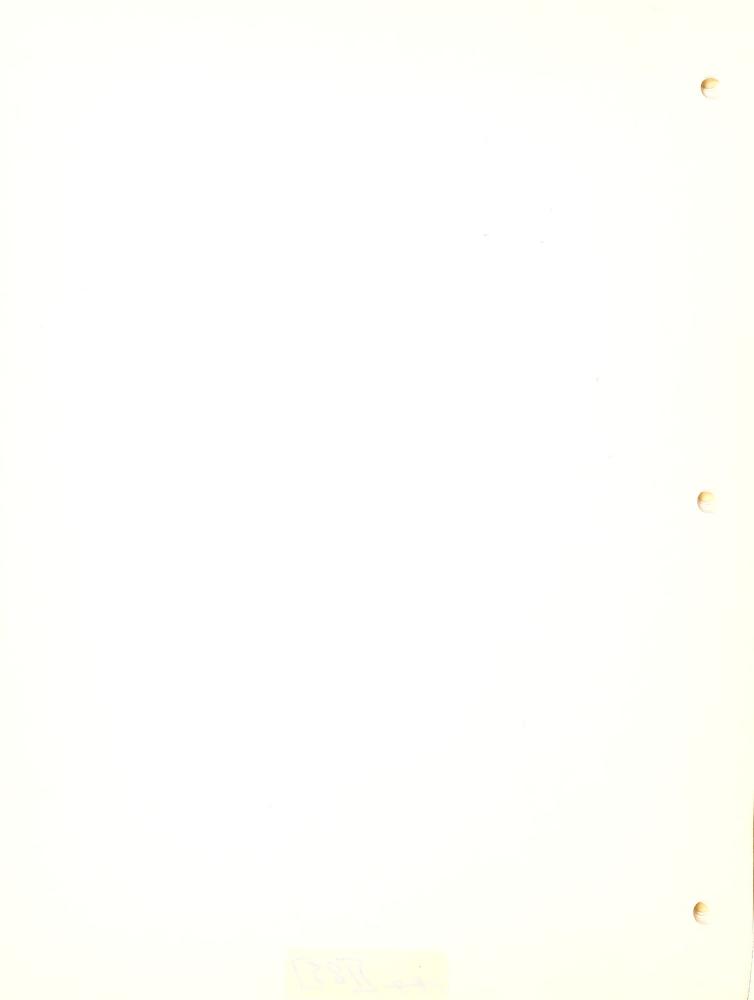
December , 19 38

Монтн

	WAS	WATERRED				RAIMPALL	4			Tenranavies (dogress F)	0 ( A II		И и и чоги					
Dava	Number	Area	Chago Np.	Pegs.n	Duration	Ashount	3	MAXIBUM INTERMET		Mardman	Minboun	Pagan Ended	A mount	H	MAXIMUM RAYS	RAIMFALL MINUS RUN-OFF (Inches)	Star Loss (four per acre)	Оокитон ое Wателанав
				-	(manage)		(inches per front) (to	3 8	(lieg			-	-	Ou ft sec				name.
<u> </u>	ê	(3)	3	(8)	(8)	3	(8)	9	(10)	(III)	(	(13)	(14)	(10)	(10)	(11)	(88)	(64)
Dec. 2	N-4 W	7,936 5,747 1,57	223			& # # # # # # # # # # # # # # # # # # #				हहर	5 8 53 53	MRO	1	ķi.				leaves; sold ground cover- leaves; sold atond, 2"high; firm Oute, 2" falt; sold, molet, firm
000	K	7.026	10			200		1		77	5	Odin						Owier dormonic good ground conse
	ハナハ	5-747	282			7 7 8				8 33	7	NRO NRO						Cate 2" fairsoil dry firm Veto 1" fairsoil dry firm Veto 1" fairsoil dry firm
22 22 25 25 25 25 25 25 25 25 25 25 25 2	WWW	7-936	222	Ledi5Am 2 2 30 Bu 5 2 4 5 Pu	843	5000	35.00	0.16	000000000000000000000000000000000000000	55.55	333							Oaks dormant, good ground cover Davos, soil dry.
25 23 - 25 - 25 - 25 - 25 - 25 - 25 - 25	1 K K K	7.936	2222	3.572 8.150 8.150 8.150		31.00	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.02	97.00 97.00 97.00 97.00	277 GK	-						Ditto
Dec. 26		7.956	19	hr35m Total	15	2,81		0.08	0.04		F	illt Box	0.001	No	Bate	2.809	None	
Dec. 22	1	5.747	10	li s/10an	23	90*0	0.36	0.16	80.	59	141	8131PM						Outs, good stand, 2"high; soil moist
Dec. 23-23	3-3- <b>3-</b>	2000 C	2222	212572	358.33	0010	15.0 15.0 15.0	20000	0.00		33 93	1111				,		Ditto aoil, mat, fi
Dec. 25-26	144	5.717	255	22.39.89.11 11.31.82 Total	1720 15	000- 9288	25	5,75	0 2 2 2	1,871,8	29.741 E1	1,000 T	7aUODM 0a3k3	2 2	12,274	1,116	9 July 0	Ditto Ditto Ditto
Dec. 22 Dec. 22 Dec. 22 Dec. 22-22	NUNN	1.57	22 22 22 23	the same and the same of	15 15 15 15 15 15 15 15 15 15 15 15 15 1	0.00 0.05 0.05 0.05 0.13	0,24, 0,12	0.00	0.00 0.00 0.00 0.00 0.10	22222	3333 <sup>3</sup>							Oats 2" fairssoil moist, dry votch 1" fairssoil dry.open Ditto
Dec. 23-36 Dec. 25-36 Dec. 26-36		1.57	222	21251757 21251757 71874174 15 Total	15	0°01 0°01 2°85 2°85	गट.०	70.00	0.02	59 1.8 1.8 1.8	100 2097410 41	Silt Box	0.023	No	Rate	2.797	900•0	Ditto wet, firm Ditto
			. 100					t		W.	16							
		1																
j	1							1			1							

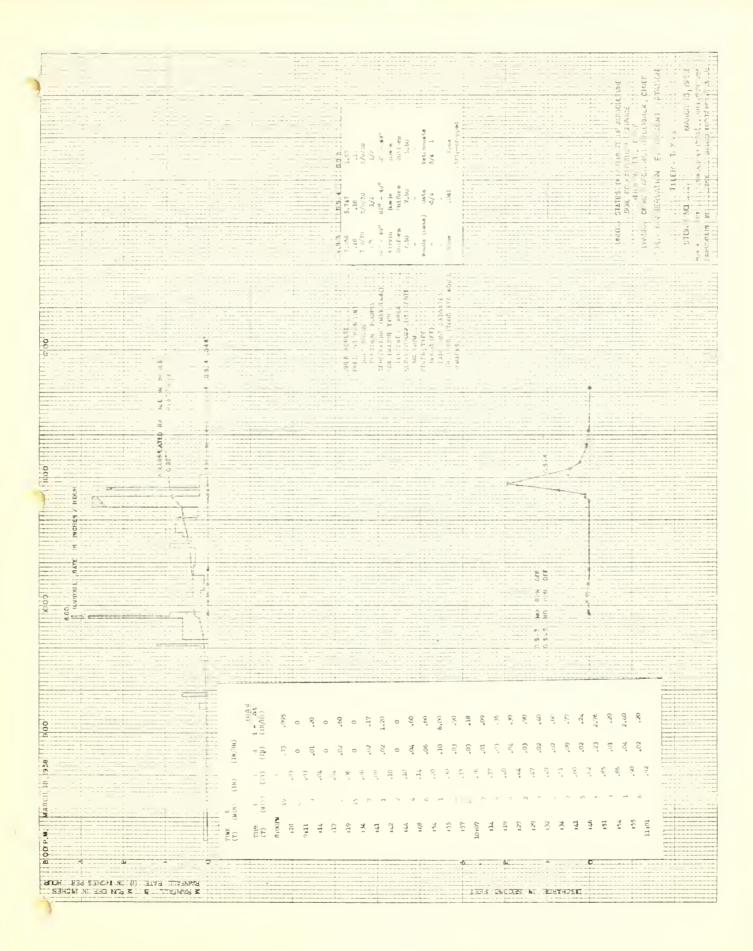




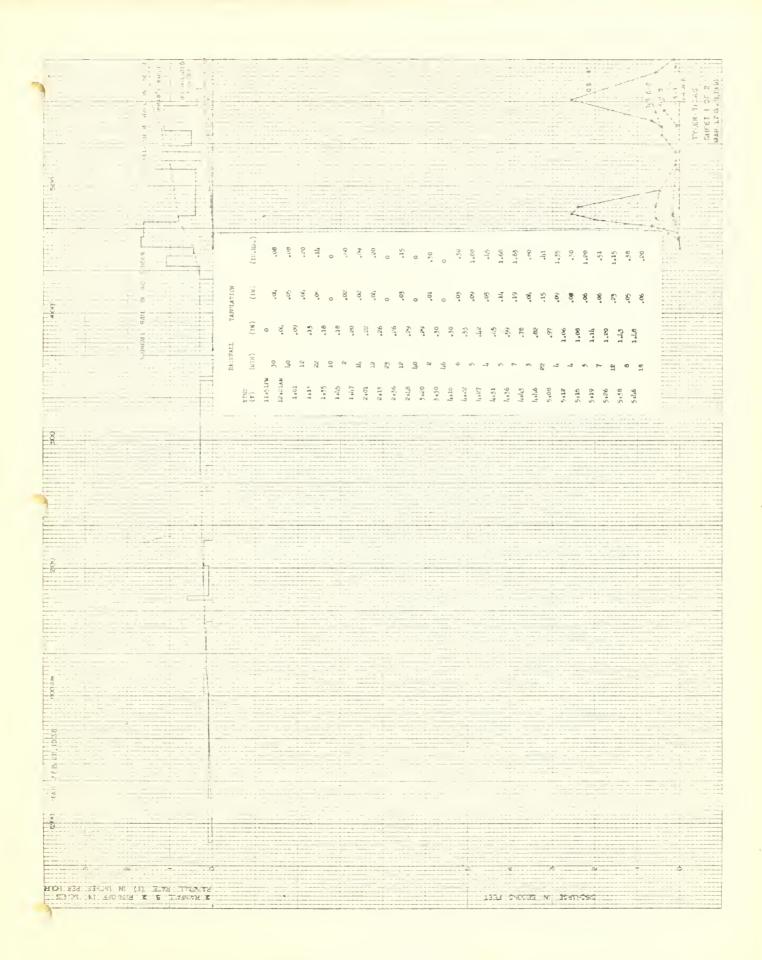


E .	1 (0/h) 1 (0/h	0)		
92 92 92 92 92 92 92 92 92 92 92 92 92 9		70° (0° (0° (0° (0° (0° (0° (0° (0° (0° (		SERVICE  NT STATION  OF ALM POLICE
N N	(Win) (In) (Ir) 39 2.78 3 5 2.96 4 5.06 5.06	4 3.100 5 3.13 7 3.13 7 3.13 9 3.14 9 3.15 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20 9 1.20	Action and the second second	
000 000 000 000 000 000 000 000 000 00	(7) (7) (7) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
				EQUITACE OF HE CONTROL OF HE C
RED OF SAMES	5	6.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5		
PARTY BANK	* * * * * * * * * * * * * * * * * * *			
14 CO		7 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4		
Col.		(C)	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	MA	
		9 8 7 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7 100 100 100 100 100 100 100 100 100 10	
	2			
	•	(A) Service Se	HI MITTANS TO AND MEN.  THE CAN THE CANADAN SECURITY OF THE CANADAN SECURITY STATEMENT OF THE CANADAN SECURITY	
2	e	A CEPTION OF THE CONTRACT OF T	PERCENTINGS OF THE PROPERTY OF	, i
Z 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Ž.		
	ONT.			
0 +-	100 M/WI)	* * * * * *		
	(N)			
рАги <b>ЗА</b> 1928	•		. 4 4 6 0 4 9 3	
	HAUBALL TYPE (7.1) (6.150 )		9107 9133 9130 9130 9135	
000	+			4
800H 834 S2HCMI HI [0] \$3H0M NI HAI NEW X	BLIE TURKIYA		1334 CACC32 MI 3884HC	sic











(2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	(11-60) (11
10 10 10 10 10 10 10 10 10 10 10 10 10 1	(E) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	(III) (IIII) (IIII) (IIII) (IIII) (IIII) (IIII) (IIIII) (IIIII) (IIIIII) (IIIIIIII
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(MIN)
3	# # # # # # # # # # # # # # # # # # #
	0.1.6.7.3.1.3.2.3.3.1.3.3.3.3.3.3.3.3.3.3.3.3.3
	0.0.3.4.  0.0.3.4.  0.0.3.4.  0.0.3.4.  0.0.3.5.  0.0.3.
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
C.M.	(15.) (15.)
	19 (19 m)
3	TREE TO SECOND S
0000	
3 C	
Search .	
	The second secon
	F . O. 1
BORRETT BELL NICK E. TRANS.  REPORT B. TRONGE B. TRONGES.	1393 DOMES N. 2000 DE 1

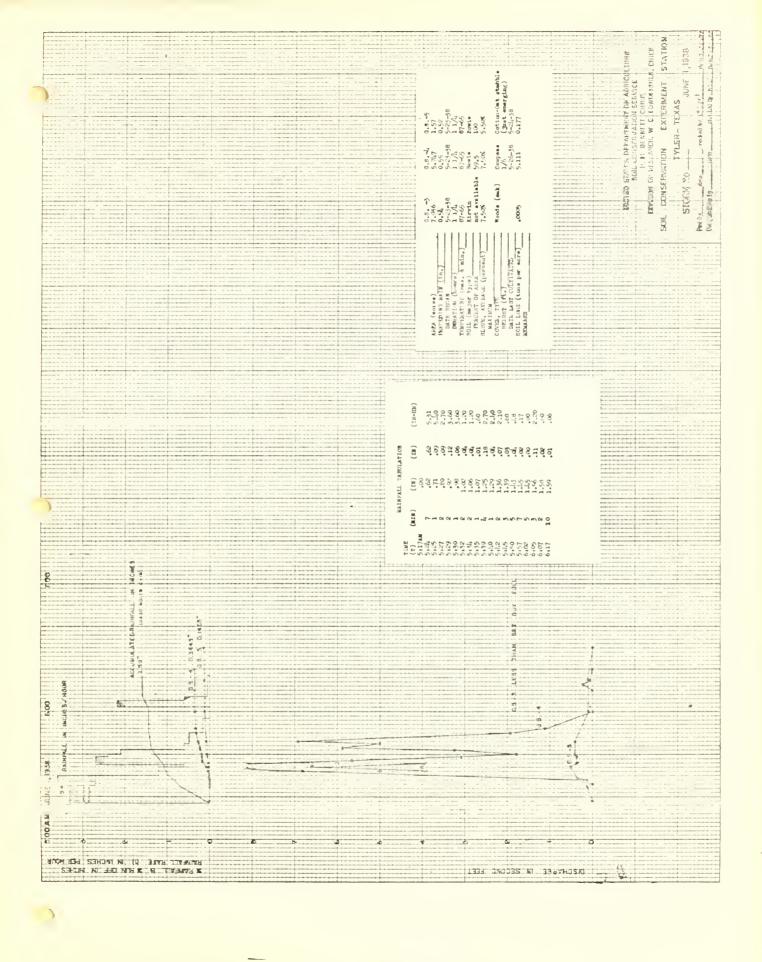


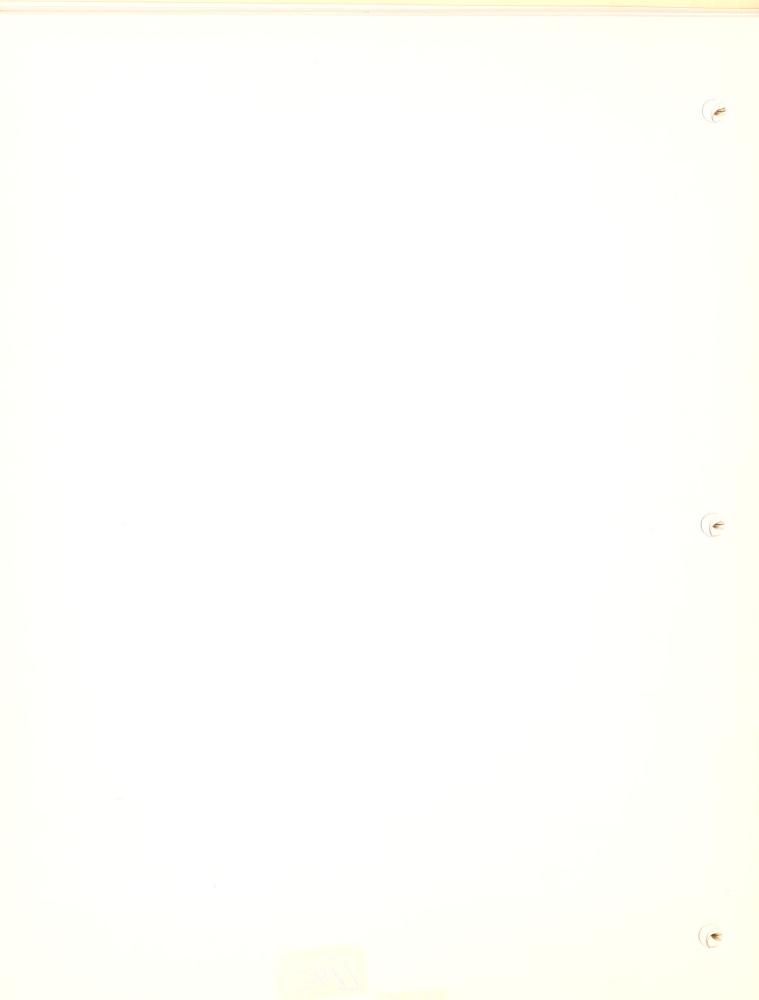
		<b>Y</b>
	The second secon	
8	The second section of the company of	
1		
	The control of the co	And the control of th
	= = = = = = = = = = = = = = = = = = =	
\$	्रा इस्पर्यक्षित्रकार्यक्ष्यं स्टब्स्ट्र्यं महिन्द्रविष्ट्रस्य स्टब्स्ट्र्यं विष्ट्रस्य स्टब्र्यं स्टब्र्यं स्टब्र्यं	
p. (		
	કુ કુલ્લ સફક્રિક્ટલ લુક્કુલ કુકુલ કુલ કુલ કુલ કુલ કુલ કુલ કુલ કુ	
TO STA	्रा क्षा (म) क्षेत्रमध्यस्य स्ट्रिवेवेवं स्ट्रियं स्ट्र्यं स्ट्रियं स्ट्र्यं स्ट्रियं स्ट्र्यं स्ट्र्यं स्ट्र्यं स्ट्र्यं स्ट्र्यं स्ट्र्	
90	्र (a) १ ६०००००००००००००००००००००००००००००००००००	Name of the state
2		
	3 A A 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	A   A   A   A   A   A   A   A   A   A	
00000000000000000000000000000000000000		
	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
00000000000000000000000000000000000000	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
00000	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
Line Handle Handle	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	
	## (C. )   1   1   1   1   1   1   1   1   1	
(100	T ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	
000	## E D	
900		
900		
900		
900		
00 7 C		
OOD TO		
000 T T T T T T T T T T T T T T T T T T		
MACOON 15 TO		D
MACOON 15 TO		D



	The state of the s	
	- A summer of the summer of th	
	0.83 0.83.	
4: 1-1-1-1	Andread production of the state	
	h	
2	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	TALLES & S
8		The second secon
	The second secon	
		# \$ transmin .5° 6 ; { { }
	2.85 2.50 2.50 2.50 2.50 2.50 3.70 3.70 3.70 3.70 3.70 3.70 3.70 3.7	
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	
	(43) [13] [13] [13] [13] [13] [13] [13] [13]	
	1	
	IN (La.)	X-
	Manual Ma	
	MAN TO THE TANK THE T	and the same of th
	ASSESS AND	
	AMEA PRIVE DATA DATA PRIVE DATA PRIVE DATA P	
	Acry to a conformation of the conformation of	
		A STATE OF THE PROPERTY OF THE
	# `	
8		
	Analysis of the second	
	288822283283283383 1N	
	2 E ELAT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
5 1	1997	
	Manufacture and a second and a	
	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
	* 50500 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	
4		
9	# 5 ~ ~ 5 5 5 5 5 5 6 7 8 9 5 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
8	# (	
	# - 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	#	
	######################################	
	# C	
Q I	######################################	
g l	# - S 2 2 2 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	
g The state of the	# 5 8 8 7 3 3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	# 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	######################################	
8	# 5 2 2 2 3 2 3 2 5 5 5 5 5 5 5 5 5 5 5 5	
0 0	# C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
0 0	# C 8 2 2 2 3 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2	
0 0	M - 8 2 2 3 3 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	
0 0 16		
(a) (b) (c) (d)		
(a) (b) (c) (d)		
G S 32		
G S 32		
Ø 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
G G G G G G G G G G G G G G G G G G G		
G G G G G G G G G G G G G G G G G G G		
d 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
<b>日本</b> (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
<b>日本</b> (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
00 00 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		
00 00 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16		
	SI.	
0 0 0 19 19 19 19 19 19 19 19 19 19 19 19 19	SI.	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G	



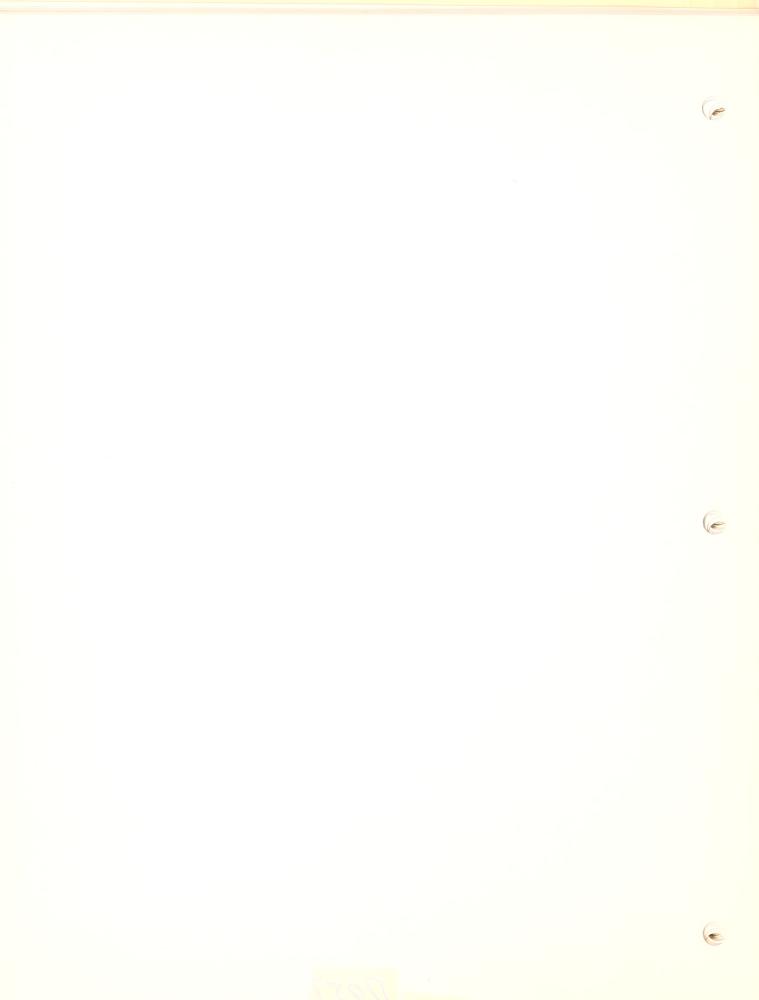


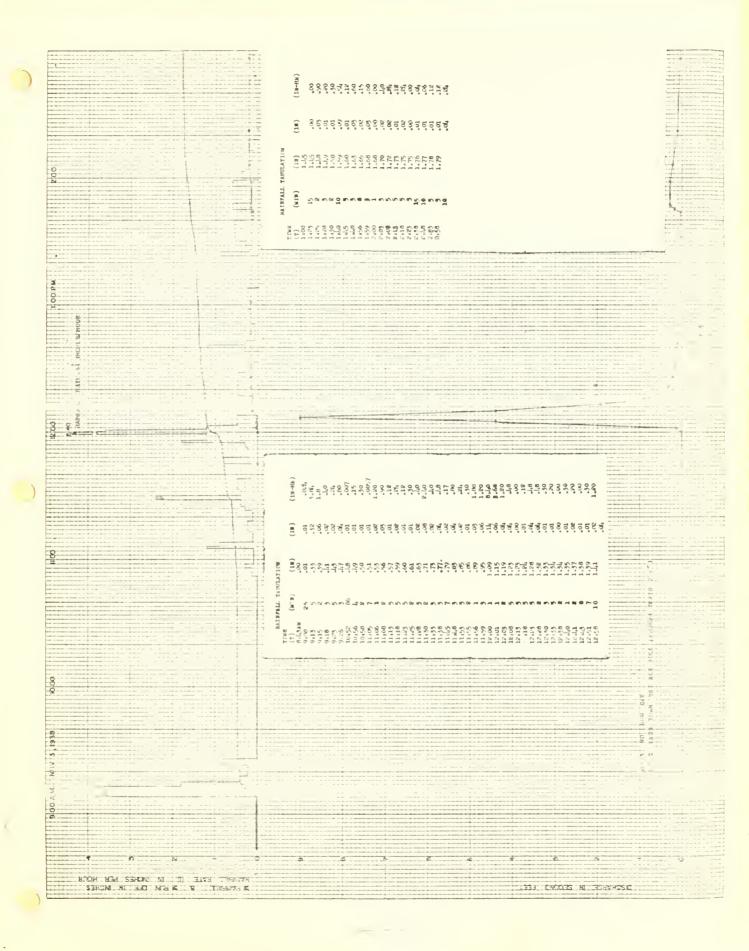


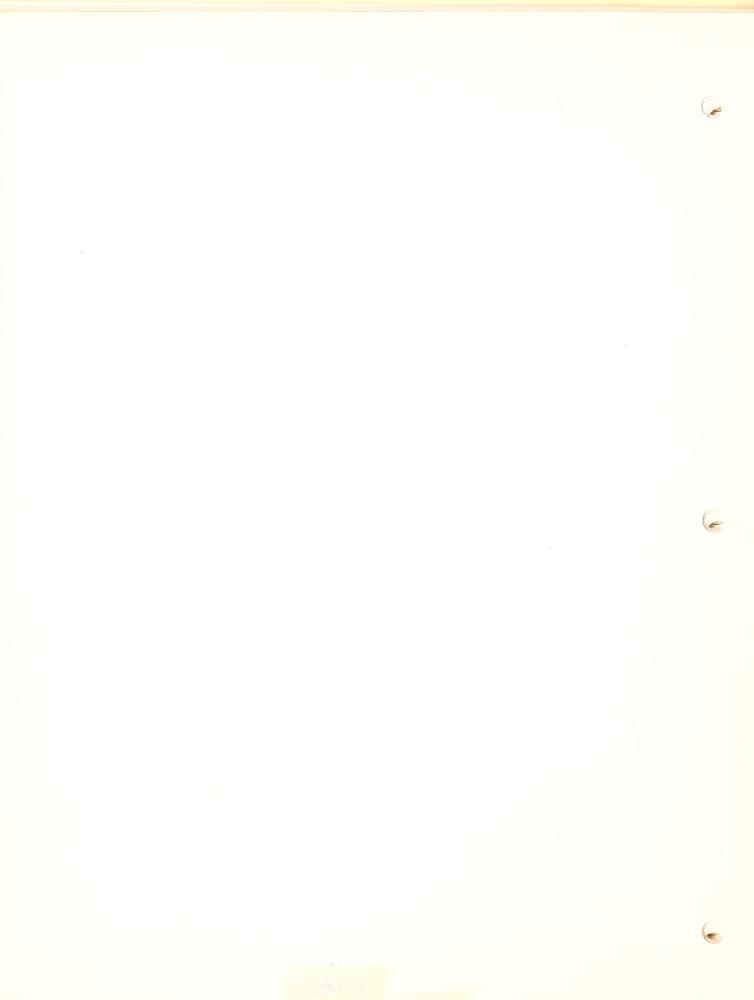
Particular to the control of the con					
		32202			STATION STATION
	7	= 8827223 = =			STATION STATION
					PART STATE
					ELECT A 4 20 13
					XES XES
	-:	**************************************			THE THE
		E C C C C C C C C C C C C C C C C C C C			
		125-54 126-54 1104 1104 1105 1105 1105 1105 1105 11			THE PARTY OF THE
		•			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		6-12 6-04	58		
		E.16 0.01 0.01 1/2 07-72 Manoglo	160		
		00 - CERTIFO H	. = = =		-H-11 S 3 3 5
		,	my Co		
		Name of the second			
		1758. No. 00.00 00.00 1.00 1.00 1.00 9.00	E S		
		9			
		o collin			
		1.85 1.57 0.01 1/2 07-72 80m1- 100 5.50	973		
		e workers &	0		
		18.4.9 20.00	8 9 6		
		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,00 mg		
			3		
		1.83 1.94 1.01 1.01 1.72 1.72 1.72 1.72 1.72 1.72 1.72 1.7	1 1		
		6 66475876 8	£ ¥		
	3				
	<u> </u>	180   180	E .		
		Tree)  Start (fine)  Fright  The Control  Th	(tone per e		man man h. mman.
		( ( ( ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	E 8		
		HO HE DATE OF THE STATE OF THE	35		
		A HATE	122		
		PHA PHA SO	8 S		
	* * * * * * * * * * * * * * * * * * * *				
			4		
	:			• · · · · · · · · · · · · · · · · · · ·	
\$					
5	Neg			<u> </u>	
	* 3 C			25	
1					
B B B B B B B B B B B B B B B B B B B	TILLING BEET			2 3	
M Z	9 22			423	
				S. CLOSE INCOME.	
AUSTRACE PARTIES AND AUSTRACE		i i		* 4 £ FEE	
2 3				9	
	100			Long" Pardia	1-111 1 11 1 -
8					
D 4 D 0 +	8		4	à	
MINETER & BENEDIL IN MORES BEEN HOW	78				
SJEN NI BUNDE W TYLER		LIBIT CNCORS NI	E ETHING	4	



	7,7200000000000000000000000000000000000
	# 75.0000095000
3ai p.	E 6440 W WE
	£ 582828258258
Problems date 4 or production to the last of the last	
The state of the s	E CORROYAL TORRA
The state of the s	E82268352-5348
	(822.68.3522-12.368
The state of the s	
	TIVE OR
	M KNAANUKENUAN
	# (100 a a a a a a a a a a a a a a a a a a
	- FOR A A A A A A A A A A A A A A A A A A A
	A company of the comp
	3 20
Particular states for the following the states of the stat	The second secon
	2
The destroy of the second seco	and the second section of the second section of the second section is a second section of the section
The second section of the second seco	Annual and an
	The second of th
	the same of the sa
	2 1 2 2 2 2 3 1 5 A 2 3 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 3 5 A 2 5
personal management of the control o	A SA COLLEGE CONTRACTOR OF THE COLLEGE CONTRACTOR OF THE COLLEGE COLLE
The first of the f	
A District of the Control of the Con	
	turning and the second
1	
•	
The state of the s	
Production of the Control of the Con	
-8	
) 8	
)-8	
)-8 P	
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
) - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
) - S	
) - 0 - 0 - 1 - 1	
) - S	
98	
)-0 PR	
PA MIGUST IE. 938  BAT IE. 938	
MATTER 12.12.12.13.14 MATTER 13.12.12.13.14 MATTER 13.12.13.14 MATTER 13.13.14 MATTER 13.12.13.14 MATTER 13.12.13.14 MATTER 13.13.14 MATTER 13.13.14 MATTER 13.13.14 MATTER 13.13.14 MATTER 13.13.14 MATTER	
DOOPH METERS 12, 193 PHOOP THE PROPERTY IN THE	
1000 M M M M M M M M M M M M M M M M M M	
1000 M M M M M M M M M M M M M M M M M M	
1000 M M M M M M M M M M M M M M M M M M	
1000 M M M M M M M M M M M M M M M M M M	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MAGUST 112, 93 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MAGUST 112, 93 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
1000 PM MIGUST 12, 93 B  MATTER 12, 93 B  MATTER 13, 10 B  MATTER 14, 10 B	
2000 PM MIGUST 12. 938  MAGUST	



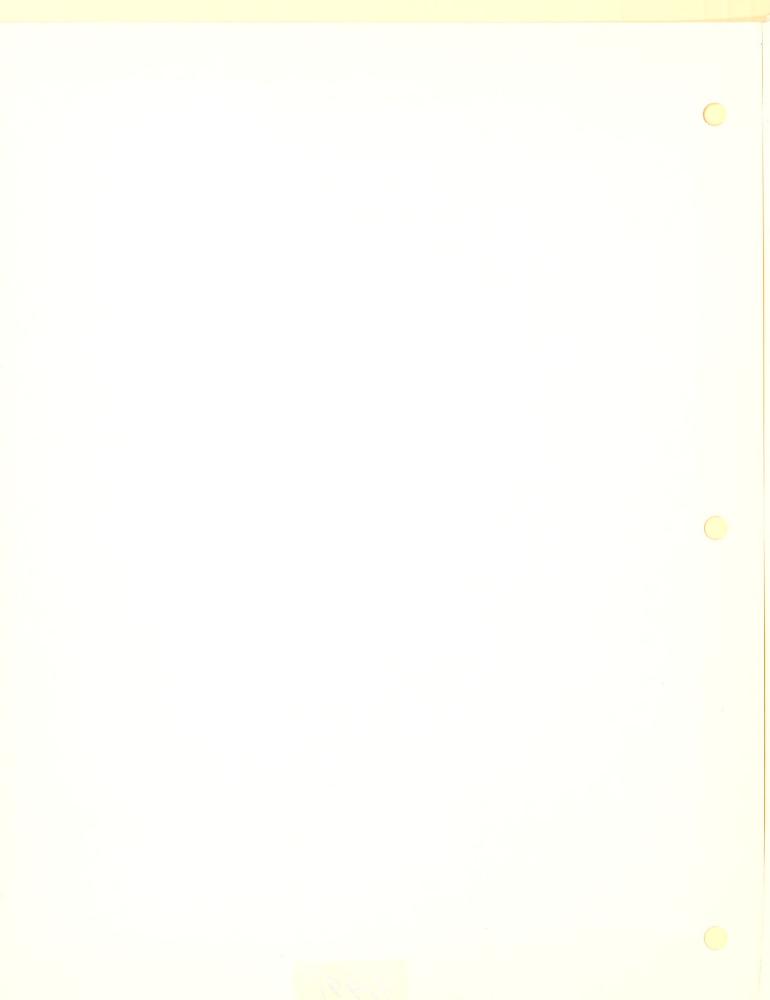




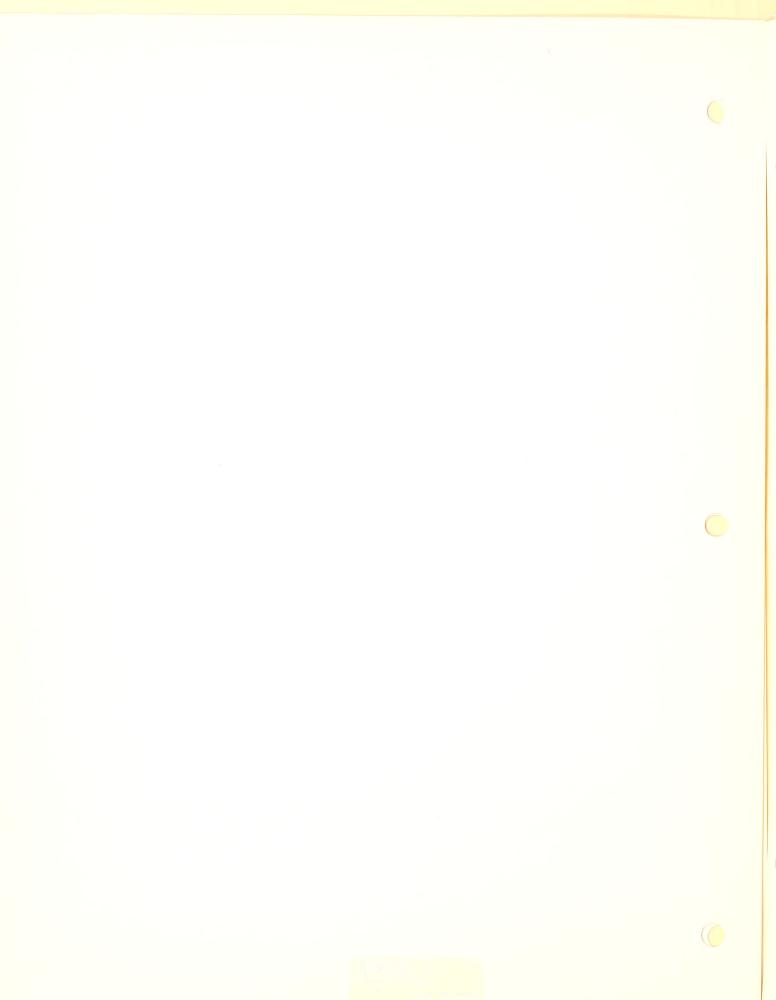




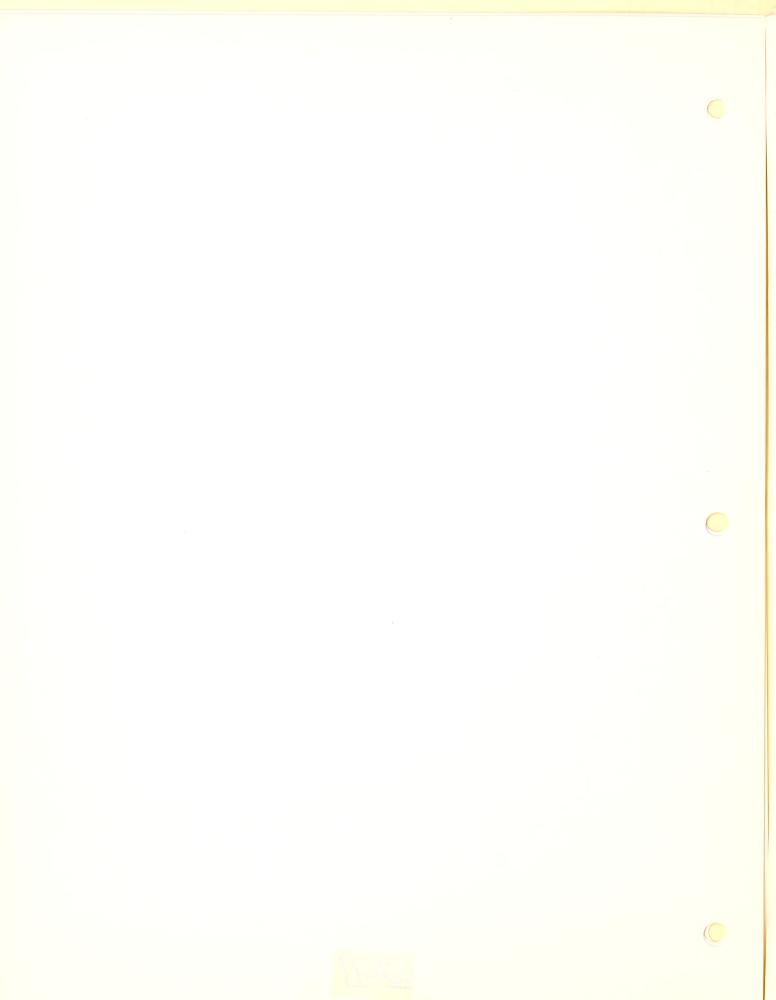
(1 mg) (2 mg) (2 mg) (3 BARBEAL TABULATION hydo a w A5.00 MOCH MGG SCHON N. IC. ZHE TREES 1331 0V0025 NU 30V0

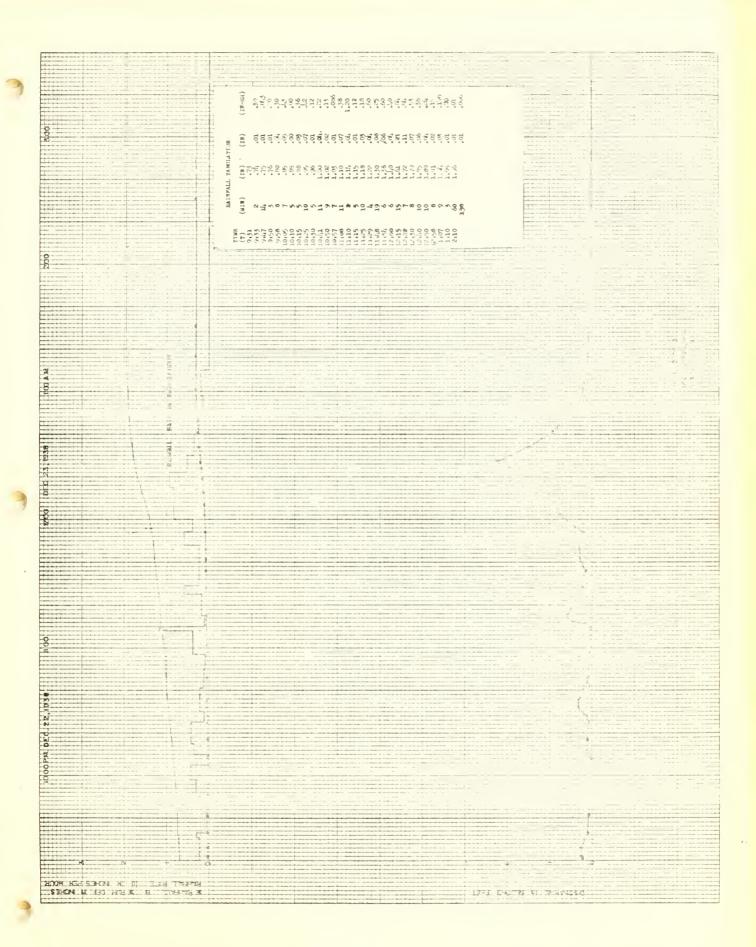


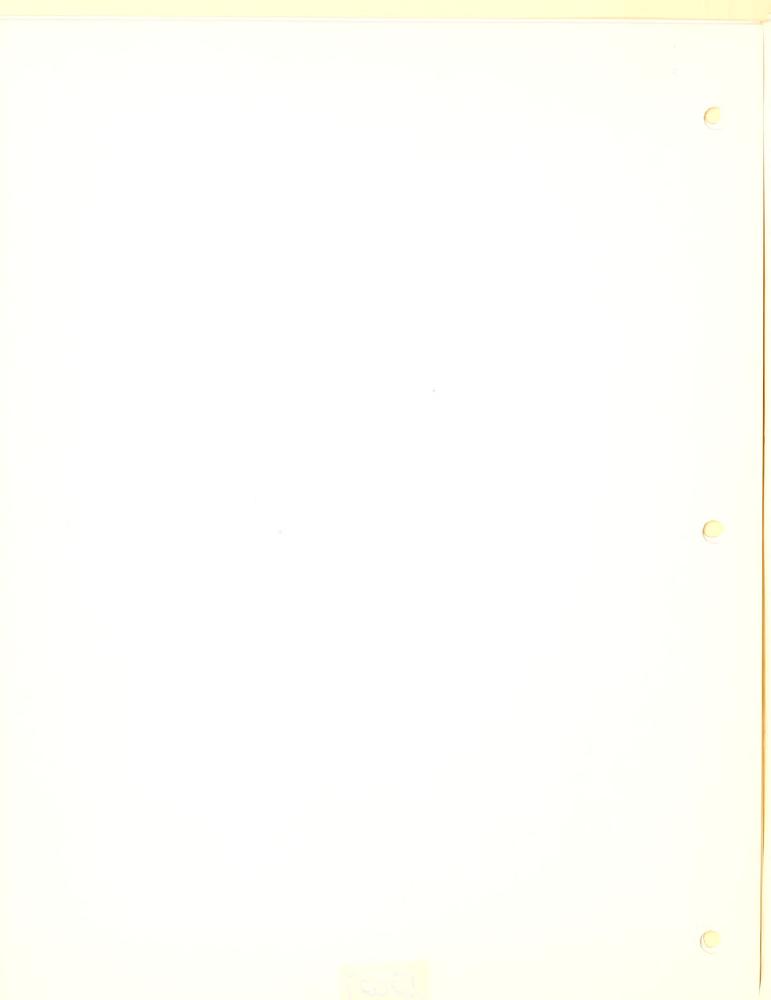
0.4.4. 5.7.7 11.5.5 11.5.5 11.5.5 1.5.0 1.5.0 1.5.0 0.0.-3 7-936 11.77 11-3-30 51-35 81-ANIA (earea)
INDEXTRIPS DATE
TABLET OF THE STATE
TABLET OF THE STATE
SOLICE AS TABLES
SOLICE
SOLICE AS TABLES
SOLICE
SO ROKALL IN BACKS ASCLADOATES. RAINFAIL TABULATION 8 8 8 8 8 8 8 8 8 282282E28 (MIB) 15 50 10 5 6 8 8 8 115 907 R. VEMOVR V. 1934 SOOAL ANTHERT BY BY HOUSE SEE HOUSE LINE THE PROPERTY OF THE TROPICS THE TOWNS I ST BUSY SORT



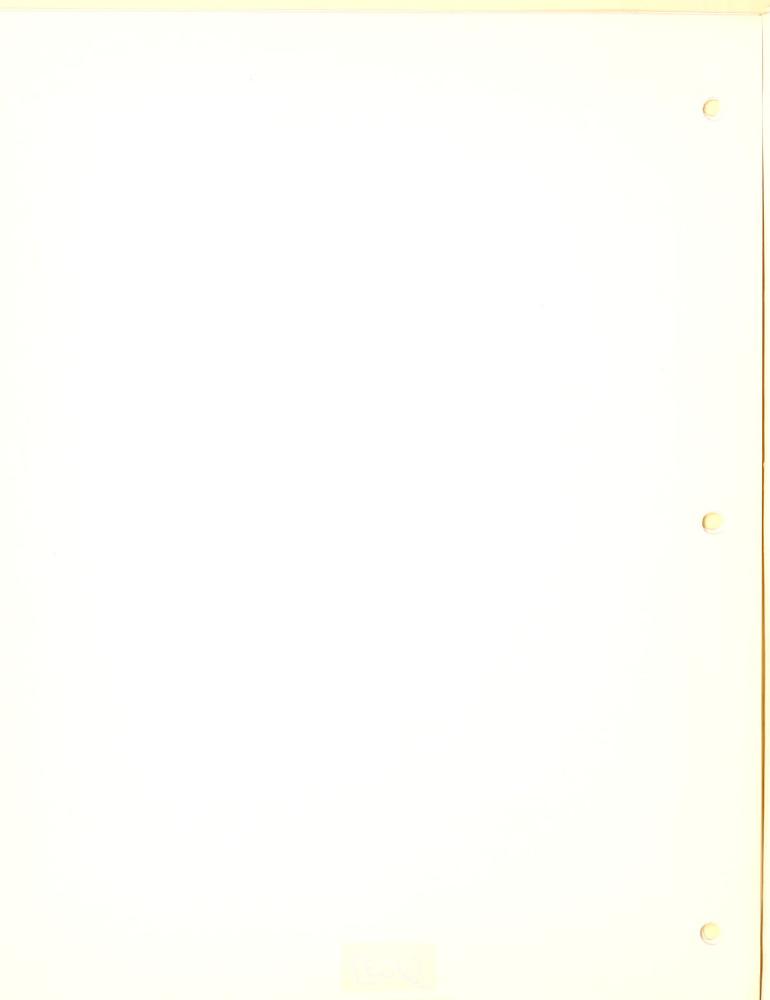
(REPORT OF A SERVICE E848848888888838484448888465744401488 22, 19,4 RUPE AS STATE AND THE STATE OF CUE IN EBWOST

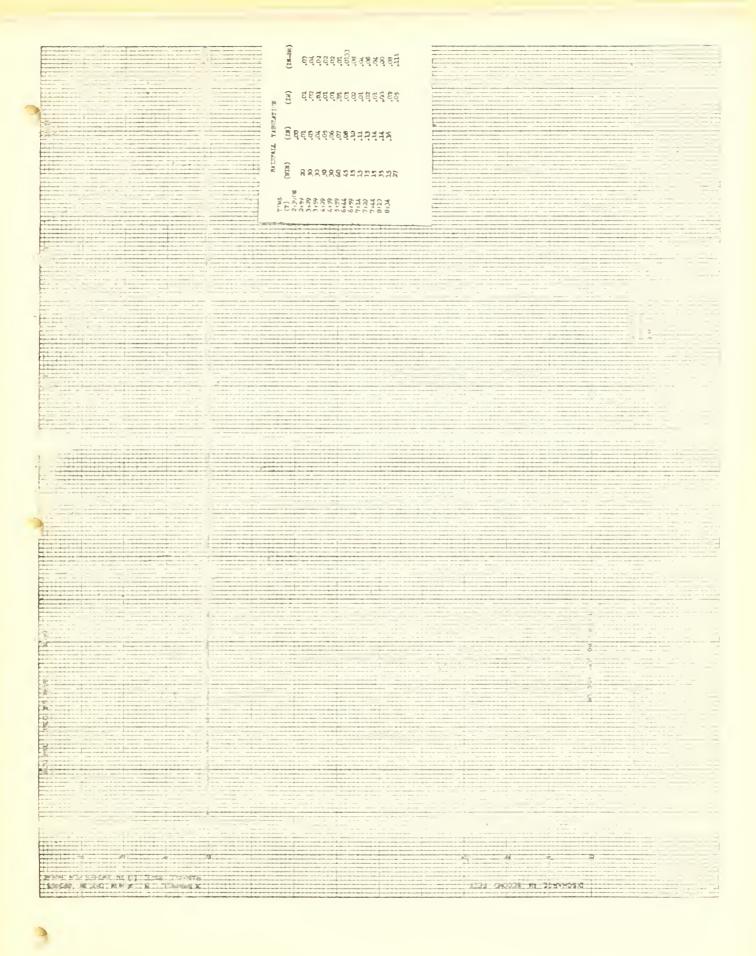


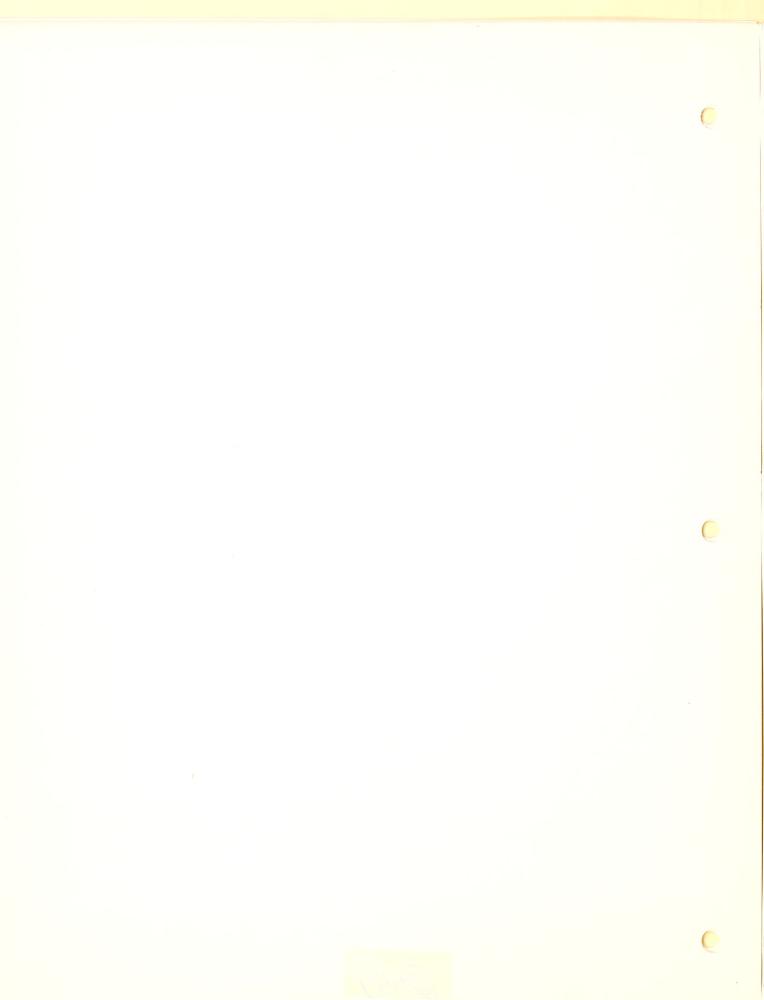




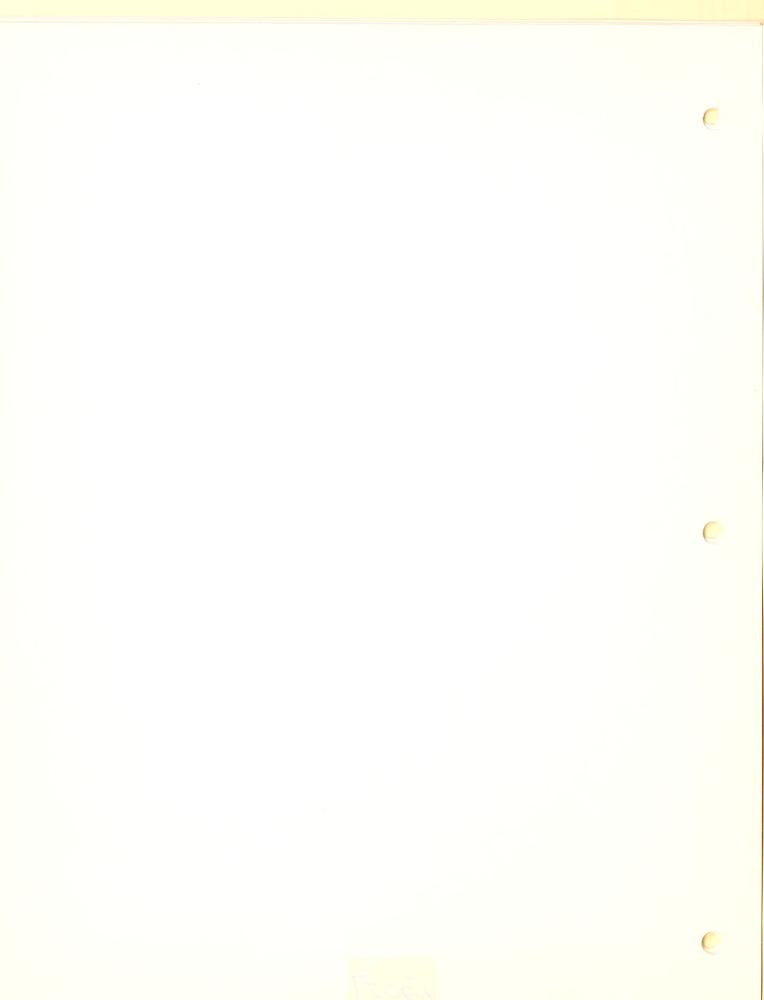
	(BN-1R)  .05  .05  .07  .07  .07  .07  .07  .07	
		OF AGRICALING STRUCE ALLIGHUK, CHIEFF MALIGHUK, CHIEFF MINIT STATION AS ACCOMB-R PERZENSIS COMB-R PERZENSIS COMB-R PERZENSIS
		UNITED STATES, UNWITHENT OF AGRICATURE  SOIL, CONSTRAINON STRINKS  THE CENTERT, CALLE  SPIN, "CONSTRUCTION, WELCACHORINE, CHIEF  SPIN, "CONSTRUCTION EXITEMENT STATION  STONM NO. "TYLER" I EXAS  STONM NO. "TYLER" I EXAS  FOR ANY STATION  FOR ANY STATION  THE TOTAL STATION  FOR ANY STATION  FOR A
	(II)	
		5 5 5 7 2 2
		HTT 컴퓨 - 국 # - 국
	Traumarios (Traumarios (Traumario) (Traumarios (Trauma	UNIED STATES, UDWETPERT OF AGRICATURE SOIL, CORSTANDIO STRIVES INVESTMY OF RESEARCH, W.G.LONGEROULK, CHIEF IN, C.CANSTICVATION E MILENAMENT STATU TYLEN - IEXAS STOCM NO.  TYLEN - IEXAS  STOCM NO.  TO ARREST OF THE STATU
	- 3 Dr. 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	STANDARD OF A ST
		6. UDWETNERT OF CONSTRUCTOR S CHEENSTIT ON S CANCH, WG LONGS ALIGN EXILTEM TYLET - LEXAS
	M. M	
Antique de la company de la co	(MIN) 84 Feb. 10 Feb.	LAHED STATES TOTALS SOUL CONSTANT ENVISAM OF REELANDIA F STATE CONSTITUTION E STOCKA RIQ.
	7.53 7.53 7.53 7.53 7.53 7.53 7.53 7.53	
	15:37200055	
	0.5 5 0.5	UNITED STAN SOUSTIEN OF CONSTITUTION HO.
	2.00 2.00 2.00 2.00 2.00 3.00 3.00 3.00	2 B 8 4 5
	11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57 11.57	3 3 3 3
The first fields are an analysis of the control of		
	The second secon	
	7 06	
	2.5 4 5.747 9.000 12-20-30 12	
	F F F	
### ##################################	26 (ca 1)38	
	0.33 77,995 0.09 9.04 9.04 M. M. M	DREL 3 OF 3 Prec - 3 Dr. 12 Dr
1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77 =
Z Z		
i i i i i i i i i i i i i i i i i i i	HINTA (EDUTED) FIGURATION (AND AND AND AND AND AND AND AND AND AND	
	and all all and all all and all all and all and all and all all and all and all all all and all all all and all all all all and all all all all all all all all all al	
0		
	B COUNTY OF THE	
8 9	Carl Programme Carl	
	FERRIT SEASONS I	
	AND THE PERSON OF THE PERSON O	
	SOUTH TO SEE SOUTH THE SEC SOU	
2		
THE OF TH		
3		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
3		
2		
8		
8		
9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
<b>→</b>		
X	4	
<b>3</b>		
<b>8</b>		
# 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		
G G		
6 6 0 0 0 0		
# N + O		
n N 7		





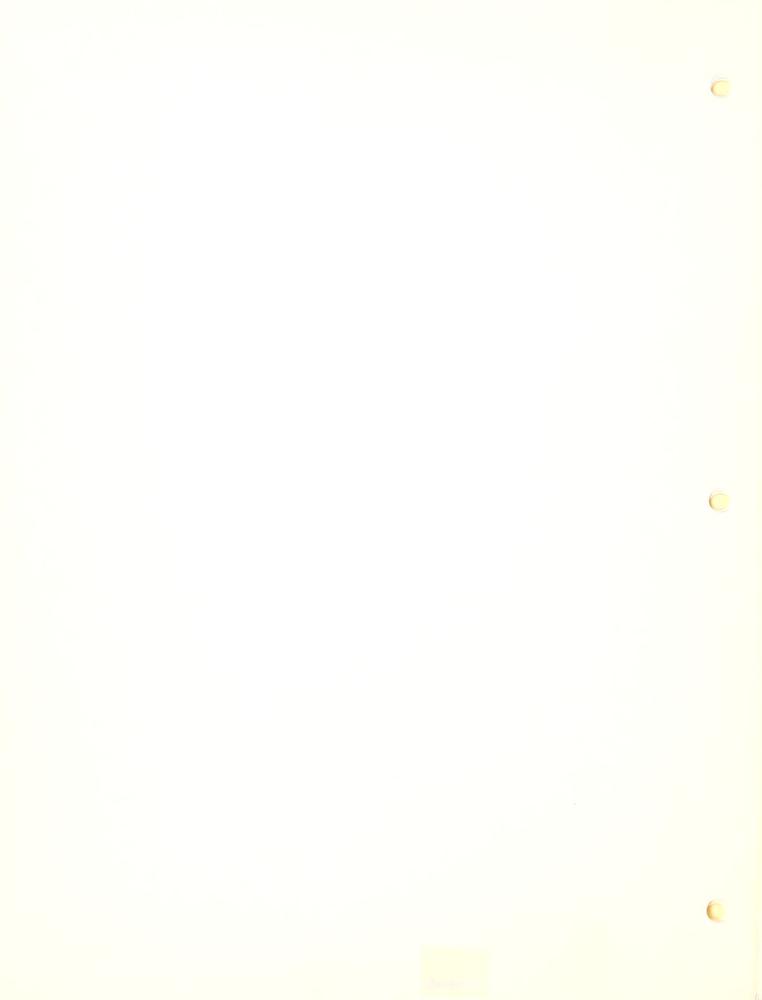


	3 78 2 7		
	हु हर्नुहर्भयंत्रवृह्द्ध्यंत्रवृह्		
	1 1 2 2		
	<u> </u>		
	. និ ខ្មែនខ្មុនខ្មែនខ្មុនខ្មុន ទី ខ្មុនខុត្តខ្មុនខ្មុនខ្មុន		
	1 5		
	4 6		
	2022222222222 202222222222222222222222		
	ा <u>विस्त्रक्ष्यक्ष्य</u>		
	INVALL		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4 = 9 g		
N = = = = = = = = = = = = = = = = = = =	T S S S S S S S S S S S S S S S S S S S		
	11111111111111111111111111111111111111		
	Poodadattatata		
	7		- 1
<b>*</b>			
		A STATE OF THE STA	
8			754
3			
		<u> </u>	
			£ 5 £
3			2
5			
Ψ'			
24		E F	
12			
f		T	
2			
		3 5	
\$			
1			
	ty		
The state of the s			
P			
12			
Live Control of the C			
8			
9			
8			
8			
8			
8			
000		8 0	
		2	
00000		2	
00000		2	0
			0
00 00 00 00 00 00	9		0
WOON MALE STRUCK IN IN THE THE WOON		8 4	0
		5 Q -	0



	C H	
	Ē 9 :::::: - : - : - : - : - : - : - : -	
	The state of the s	
	2	7 7 7 7
	F 045	. 1
	685	
		F 11.
	£	프로그 프로그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
	N 0 para 11 11 11 11 11 11 11 11 11 11 11 11 11	- 4 . 3 -
	25 25 TAVE	
	; A 9 " it the first time :	
		and the second second
	30 30 50	
	# <b>26</b> % ====================================	a 1
	HMAN kum se sample and a	> +
	m 6	
	1.3 5 1.057	L
	= = = = = = = = = = = = = = = = = = =	145 T A 15
		C () 2 2 2 - 2 2 2 - 2
	· · · · · · · · · · · · · · · · · · ·	- + i
		声 年 二 . 妥
	1.3.4 1.3.4 1.7.7 1.	
	# ## Montage 20 % 4	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	<ul><li>1 は、大きの音音を表す。を含える。</li></ul>	
	The state of the s	
	ė i i i i i i i i i i i i i i i i i i i	
	de (A	
	7.9.56 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	
	9 6025086 E 88 E	
A STATE OF THE PROPERTY OF THE		
	AND STATES	
	13 13 13 1	
	(in the part of th	
4	B CO B AREA CO	
	. GEERHSHRUMENT	
Name and the second sec	1.646.76561234	
	META NATIONAL STATES OF THE ST	
9		
8		
3		
3		
3		
8		
The state of the s		
3		
8		
3		
8		
8		
8		
<b>&amp;</b>		
8		
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
X X X X X X X X X X X X X X X X X X X		
\$	1337 CNO.335 NI BUENHOSII	





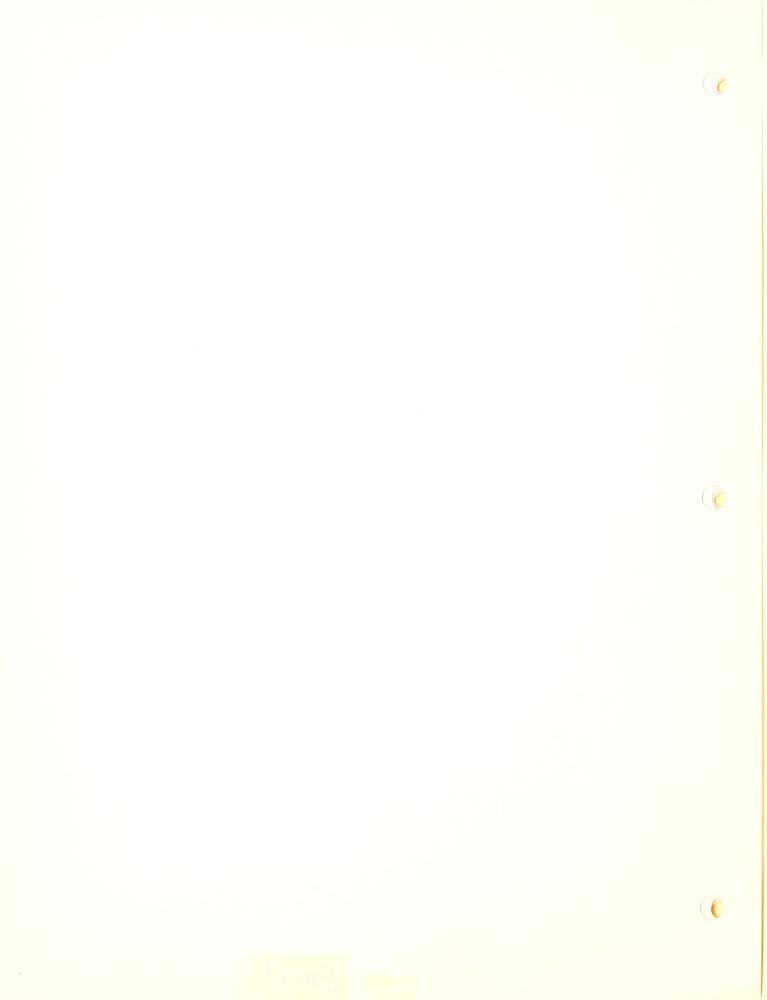
# UNITED STATES DEPARTMENT OF AGRICULTURE BOIL COMEDIVATION SERVICE DIVISION OF PRESENCE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

PROJECT SCS Experiment Station, Tyler, Taxes

Montry January , 19-39.

2" high; good; wetch l"fair 2" high; good; wetch l"fair Woods (oak); dormant gr.cover lvs Oute; good etund, 3" high Strip croppedjouts 2";good;vetch Woods (oak); dormant Duts; good stand, 3" high Oats 2" good; vetch 1", fair stand, 3" high stand, 3" high stand, 3" high Oute 2" good; vetch 1" fair Outs 2" good; vetch 1" fair Outs 2" good; vetch 1" fair Outs, good stand 3" high Strip cropped; 50% outs; 50% Vetch Woods (oak); dormant Oats, good stand, 3" high Oats 2", good; welch 1" fairgood stand; 3" high good stand; 3" high (oak); dormant Woods (oak); dormant. Woods (oak); dormant Woods (oak); dormant (oak); dormant foods (oak); dormant (ouk); dormant Outs; good Outs; good Outs; good Outui Oats Moods Outsi Outsi Poods # poor Oute (tone per ecre) 0.477 0.019 0.233 000000 0.002 0.013 RONAL MOTOR RONALD (Inches) 1.408 1.760 1.875 1.761 0.185 0.562 (1.7) 4,58PM 11,3352 (91) RAYR Time Fate FALO rate rate Махимон Ou. R. 860. 1.86 No 38 ON. (18) No No Non-ore Amount (taches) 0.045 0.422 0.018 91) 0.220 0.039 0.005 TABSAP. 6126AV 2459PM Rinded (Itour) 9 pox POX Pox No. 2,52FW 8,12FW NRO 511t SALL SALL OLOLPH 3118 Hegan (hour) NRO NRO NRO NRO NRO NRO (F %) 45 45 5-42 53-51 3-51 53-51 45 333 3 7 24424 35 35 2 2 3 36 36 TAMPERSATURA (dogress F) 2-65 2-65 -65 09 94 88 8 202 9 9 3333 222 57 48 48 (factions per boats) (factors per hour) 0.48 0.03 0.50 0.48 0.00 0.24 0.08 0.12 0.18 0.24 (10) MAXIMUM INTERNET 90°0 0.76 0.36 0.40 0.52 0.76 0.72 0.08 0.08 0.16 0.36 0.40 9 0.24 (inches per hour) 80.0 (3) 0.12 1.44 1.44 1.32 0.12 0.36 0.12 0.60 0.72 0.84 0.72 1,52 0,46 1.98 1.50 0.48 1.98 1.50 0.42 1.92 0.05 Amonnt (Inches) 0.02 0.19 0.18 1.45 0.04 0.56 8 80 313 1080 Puration (minutes) 375 1060 393 325 381 75 368 307 772 000 100 145 123 420 410 382 <u>@</u> 39 10,08PM 12,38AM 12,35AM 12,40AM 8415FM 3450AM 8.06FW 3.33AM 9159AN 51184W 4155AW 5112AW 1.30PH 4.504N 4.40AV 4.55AV 7147124 6 110Fil 12:52AU 9155AM 12:30FU 714003 10.04A¥ 314341 Began (hour) (9) 19 10-r-c 12-F-A J-1-01 10-Y-C 12-F-A 10-F-C 2-F-A 12-F-A 19 10-F-C 12-F-C 19 10-F-C 18-C-1 2-F-A Gage No. (\*) 19 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 7.936 7.936 7.936 5.747 5.747 7.936 5.747 1.57 7.936 5.747 1.57 A real 1,57 1.57 3 Number Ē m ★ w **G G** m m m m 200 Jan. 8-9 Jan. 6-9 Jan. 8-9 Jan. 11 Jan. 11 Jan. 12 Jan. 11 11 11-12 Jan, 11 11 11-12 DATE Jan 15 Jen. 23 1939 Jan. 17 Ξ Jan. 3



Form 8. C. 6.-348

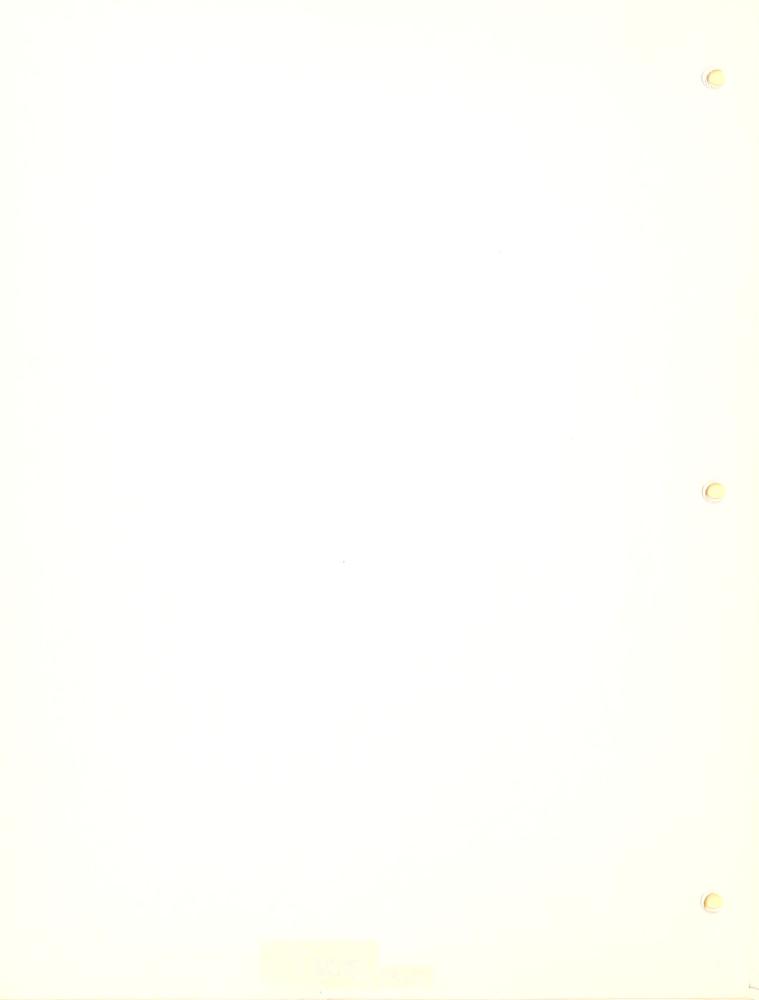
## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF HESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19 39

Monru Jan. & Feb.

	36 19 10-F-C 12-F-C 19 19 19 19 19 19 19 19 19 19 19 19 19	(a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(es) (Calibration (20) (11) (12) (13) (13) (14) (15) (16) (17) (17) (17) (17) (17) (17) (17) (17		Maximutes building the hour) (fe	MAXINGON INTERNALY  6 minutes (Inclus per loux) (Inclus per loux) (Inclus per loux)	1	Martinum Minhum		Hogan Rus (boar) (bed			MARINUM RATE		HAINEALL MINUS B	Bur Loss	CONDITION OF WAYBRAILED
		13 4			& sulmutem when the hour) (t	18 minutes active per bour) (fi		Madimum Mir		_						Track In the last	
		12.4		0.03 0.03 0.03 0.03 0.03 0.05 0.05 0.05	(W)		So minutes aches per hour)			_	_	(n) Cu ft nec		Time			
### ##################################		13 4		0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03		(a)	(10)	3		(12)	(13) (14)	(18)		(19)	(17)	(18)	(10)
4.0 mmmmm 4444 00 04 04 0		12 4		0.04 0.03 0.03 0.03 0.03 0.03 0.05 0.05 0.05	_			52-60 41	41-49	08			-	_	ļ	1	Monda (out), dominat
7 		4		0,03 0,03 0,03 0,05 0,05 0,06 0,06 0,06			1			NEO							Oats good stand, 3" pich
때때때때때때 국국부부부 교회 최대 대 지 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기 기				0.01 0.03 0.02 0.05 0.05 1.655				52-60 41	41-49 N	NHO		9					
				0.01 0.03 0.03 0.05 0.05 0.05	1					1		1	_	_		1	
				000000000000000000000000000000000000000				_	_	-		,		3		J	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	3	0.02		_	NGO				1	-	I	(ouk)
70000 4444 AA AA AA AA				0.00	0.72	03-0	24.0	55-57 54 55	54-37 N	RO			-			Ī	( oak)
ସ୍ଥର ଜ୍ୟୁକ୍କ ସେଥି ସହର ଓ ସ୍ଥର୍ଥ ବିଷ୍ଥର ବିଷ				0.00.00.00.00.00.00.00.00.00.00.00.00.0	Logg.	1.20	200		-	Milo	1	1	-	(			f ( yno )
44 11000 10 00 00 00 00 00 00 00 00 00 00				0.00	18	2	20.0		_	ON		_	1				( OHK )
				1.65	1	40.0	0.04 0.04		_	NICO	_	1					
				1.65	0.12	80-0	90.0			NHO		_		1			Woods (oak); dormant
	~~~~			000	1			_				-	_	1			
	7777			70.0	90.0	000			54			_					good stand,
विषय जिल विष				0.32	09-0	U. 48	0.42			LLAUGHA LAI	MALLAL	99*	_	ווינגיונ			2
ାକ୍କ ଜଣ ଜଣ ଜଣ ଜଣ୍ଡ ⊣ରା ଜାଣ ଜ				1.04	1.25	1.00					843944	4	_	5.1142			sood aftered 3*
e of order order				_	10	0.0					3 . 4 4 tm	2	-	0.22			Contract Day
വ വരു വരു വ		۷		_	7	0.06	8		5		W Jan	7	-	4.34			good stands
				1	77.0		Γ		3		4			-		Т	Oats, good stand, 3 mgn
an and		10.001M		100	99	3	36 0	_	7		10491	-		1 000		00701	200
n	1		707	200	3 6	9 9	200	200	7 5					24.40	Į		Odies, 3 , bood, vecon I , lair
and to		TWDT 1 TO		1001	1020	חסים	0.40	1		TARCIC MARTIC	TANGOLO O	-	-	21244		,	Date, J., good, vetch L.,
24									11	11 x 34 AV 1 x 55 FV	25FW	20	_	11.50ak	1		
er l		2450574		0.05	0.12	0.08	90.0	-		,			_		1		8 67
	7 12-1-4	12,5801	06	90.0	0.12	0.08	90.0	42	30				1				Oats, 3", good; votch 1", fair
, .	0			1.43				3	)	)	0.178	R	-	1.252		0-148	
	1														1	1	
	36 19	BALDAN		9000					_	NHO							Woods (oak); dormant
•	П	_	₹228	90-0				53	36 NE	NRO						Ī	Oats, good stand, 3" high
5 1.57	7 12-F-A	8 4 3 7 AM		0.05			Ì	+		NAO	-		+			Ì	Oats, 3", Good; vetch 1", fair
	-						1	ļ			(		-	1		Ī	
	1			1.00	-	1		i	-		1	1	1	1	-		
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 19	31#1AH	, 5	9	1.44	0000	0.76	0 99	24.	OHN							Woods (onk) dormant; gr.covered Lv
,				0.70			,	-	-								
*				0.05	0.48	0.50	010	- 1	45	1		1			1		Outs good stand, 4" high
14	47 LO-F-C	MA82401	56	0.62	1.20	0.92	0.74	99	45 10	10,5644 12	12,55PM		2.24 111	11.0641			stand,
		-		L9-0				+	1		691-0	-80	1	CASKOD	Ī	0.288	
Feb. 14 5 1.57	7 12-F-A	314141	2	0.04	0.36	0.16	90.0	89	45								Strip cropped;oats3"good;vetchlg"
	Ī	-		0.61	1.20	0.92	0.78	_		1045744 1	1,3624		0.18 111144	20	1		Strip cropped;outs3"goodive
				9.0	1	-		,			0.083	3		195-0		0.052	
	8								_				_			Ī	
regarder's framework of the parties of the second second		,															
	1							1		1		1	_		-	,	



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF PERSANCH

VARIOUS WATERSHEDS NO RUN-OFFS RECORD OF SINGLE STORMS AND THEIR PROJECT 508 Experiment Station, Tyler, Texas

19 39

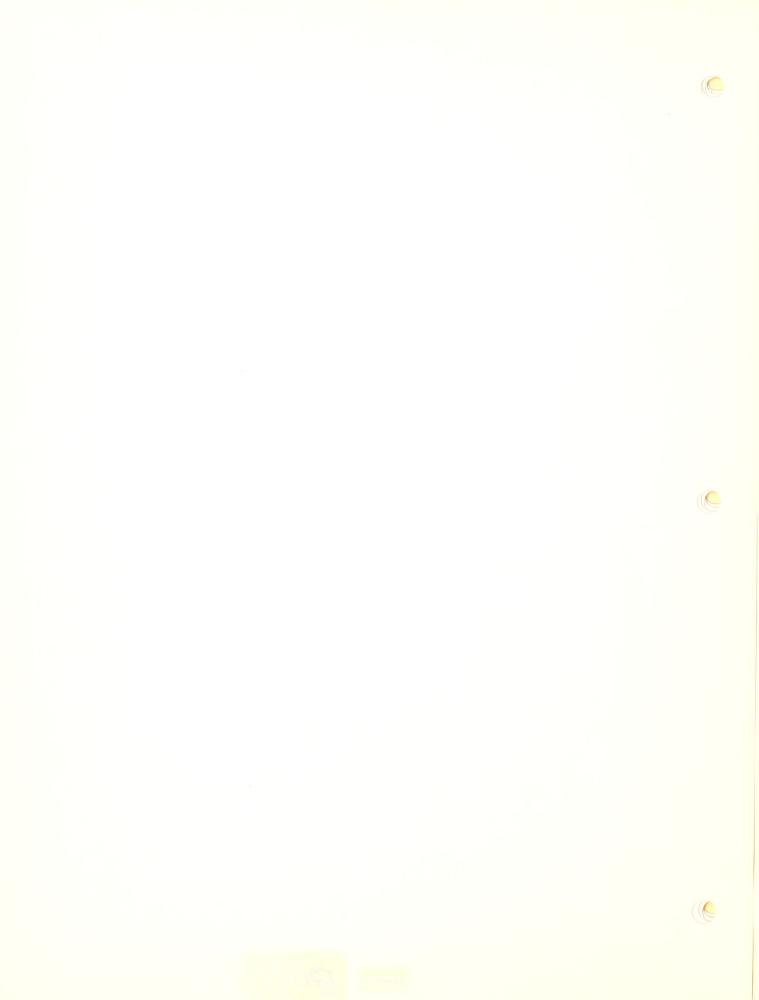
MONTH Pob. & MAL

7

or,

SHEET

4"jvetch 2" fair (ouk)dormant igr.covered lvs good stund 4" tvetch 2" fair SHENTS ratr ratr ratr Oats 3", good; vetch ld" fa Oats 3", good; vetch ld" fa Gars 3", good; vetch ld" fa Gars 3", good; vetch ld" fa Oats 3", good; vetch ld" fa y good stand, 4" high Outs, good stand 5" high Outs good stand 4"; vetch Moods (oak); dormant Woods (oak); dormant Woods (oak); dormant Woods (oak); dormant ----Moods (oak); dormant dormant dormant dormant dormant stand. stand. stand. et and, stand Btand stund (8.8) (OHK) (ouk) (ouk) Outs, good souts, cod souts, good souts, good souts, good souts, good souts, good souts (00k) poox Rood pood epoom epoom epoom epoom Outs, Outs, Outs, Outs o Outs. (None per sore) 1.754 0.020 0.007 0,220 0-671 1.654 3 H HUN-OTY (Inches) 2.512 1.733 2000 1-035 1.609 1,333 13 4 1 5 6 A 3 5,5141 4154AX 1.2611 515541 7.1403 51012 6 100AN Thue (18) MAXINUM RAYS Cu ft sec. 0.18 4.81 0.77 0.00 3.08 0.15 0.12 5.02 (8.8) 0,727 0,355 Assumit (tochas) 0.128 0.941 0,687 0.955 1,3144 6 150PM 514 LAULI 155AM 4 1362300 524FM 6157FH 6134AM 613154 B 122PM 9 3 3 4AN 2:4112 (actual) 13 5148AM BA 49AN 9,1144 1,2119 5139AM 814742 TALLPH 1125FW 4,344 NRO Baggan (Beatr) (8.8) 38 99498 \$ 4 4 B B 250 HE ផផផ 444 445 33 (dagree F) 22222 22222 22222 16 16 33355 33355 (herbins per hour) (factors just bottom 0.00 80°0 0 0 0H 0,14 0.18 0.00 7.04 100,00 0,75 0.72 0.04 0.20 0.24 8 3 6 0.34 1.44 0.12 0.24 0.24 2.45 2.45 2.45 0.35 0.36 0.38 0.38 1.29 0.12 2.55 2.55 1.16 0.02 0.03 1.12 2.46 0.07 200000 0.16 0.16 0.16 0.16 1.99 0.03 0.02 2.64 ε Perudian (adminis) 250 250 10 10 320 205 40 418 375 240 205 45 339 339 370 198 45 340 368 233 450 50 37 20 330 450 330 320 320 Ē 10-F-C 0155AM 10 F-C B101M 10-F-C 11255M 10-F-C 5127AM 12-F-411-154W 12-F-4 6x21FW 12-F-411-56FW 12-F-4 5:304W 10-r-c 9.251M 10-r-c 2.351M 10 r-c 4.571M 10-r-c 5.004M 10-r-c 4.44M 2:Noon B:555M 2:103M 2:250M 5:274M 91300AM 2138F2 5103F2 4105A1 9 n 30400 2 n 40150 5 n 0 3 P 2 4 n 0 5 4 2 C Įĵ. 0 12 7-21 12-17-21 12 17-21 12 17-21 19 10-7-C ž 88888 9 7.936 7.936 7.936 7.936 5.747 5.747 5.747 5.747 7.936 5.747 1.57 7.936 7.936 7.936 7.936 5.747 5.747 5.747 5.747 ij 1.57 1.57 Ê, Number 99999 m + m Ē . 24 24 24 25 25 27 March 1 Feb. 17 17-18 17-18 Feb. 17 17-18 19 19 22222 9997 1939 Fab. 17 Dam fasch 4 Feb. Feb. Laroh Feb.



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

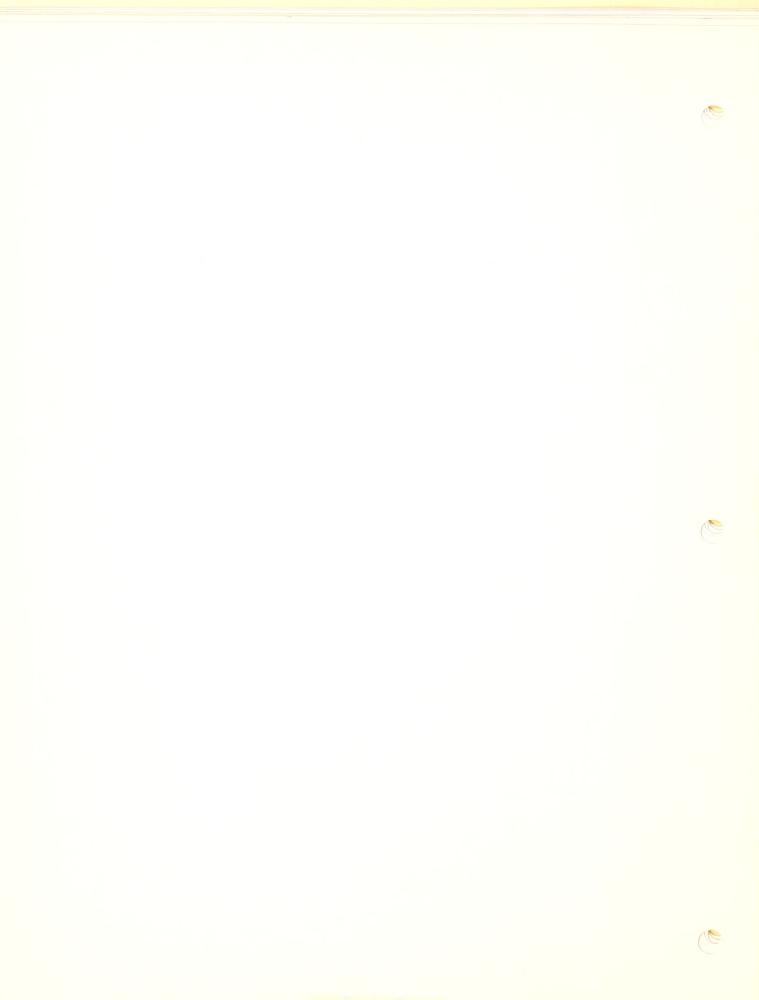
RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

. 19.39

MONTH MAR. & ADI.

Woods (oaks in bid)
Recently planted in corn
Outs, good stand 10 "gretch S"fair Sth 8th Woods (sake in bud)
Outs inned underscorn planted15
Outs, good stand 10" svetch 5"fair Woods (oaks in bud)
Corn good stand 12" high
Oats, good stand 10" jvetch 5"fair Woods (oaks in ted)

Corn good stand lg" high
Owts good stand lO"swetch S"fair stand 10" jvotch 5"fair stand 10" jwetch 5, fair Oats, good stand 10" svetch5" fat Woods (eaks in full leaf) Corn good stand 2% high BILLETS stund, 3" cultivated stand, 3" cultivated goods vetch 9" fair goods vetch 9" fair Woods (oaks infull leaf) Woods (ouks in full leaf) Woods (ouks in full leaf) युक्त स्थाप स्थाप TION OF WATTRABLE 7 stand 0.0 po on p00% poog Poogl 22 Outs a Corn Outs Corn Corn SHEET Stry Low lone per sore) 010 010. 000 040 .364 900 (8.8) RAIPPALL MINUE HUN-OFF (Hickory) .236 416 (13) .255 4469 4541. .502 LOADAE rate Time (16) MARINUM BAVE rate Mate rate No rate 1.30 Cu. ft. me. No No 9 (18) No •4 0.021 600"0 0.004 0.004 0.005 0.068 (14) LAGOAN Kniged (hour) (13) POX. POX POX pox FOG 8114 311 8114 SA11¢ SA11¢ NRO 0 400mm Bilt Beans (hour) (88) ON COUNTY NEO NEO NPO NEO WEO NAO NRO MHO TRMFEBATURE (degrees F) M. Indep 288 2000 51 57 63 2 2 62 62 62 43 52 22 = dashmun. 76 16 76 7.0 68 68 68 68 68 79 7 10 4 10 79 20 SO minutes (inches per hour) 0.00 0.30 0.58 0.50 0.08 0.0 98.0 0.98 0.04 0.04 (10) MARRON INVANCT Pertant per hours) (Seeken per hour) 0 .64 0 .60 0 .60 0.56 1-16 0.58 0.12 0.08 1.24 1.36 0.08 1.04 8 0.60 0.96 2.40 1.68 1.80 0.96 2 004 1.92 2,40 2.28 (8) BATHTALL 0.58 0.55 0.57 0.40 0.40 A mount (Inches) 0.26 0.02 0.53 0.56 0.42 0.14 0.61 0.24 0.02 0.49 ٤ Demation (minutes) 320 222 23 45 45 3 E 20 15 12 93 9 5 PROJECT 5CS Experiment Systion, Tyler, Taxes 9alferi 9acipu 2,104M LOGAN LACOAM 8.53.9% 0.55.PM 2, 19FM 2145FW 4153FW 9.25FW 2.10AM 915011 211044 19-C-198153FM 2148FW 9 5 2 3 P.M. 415251 211041 (bour) 9 10-F-C 10-F C 12-F-C 12-F-2 10-Y-C 10-1-C One Ma. 12-F-10-F-10-F 12-F 1001 10-F-61 6 207 7.936 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 5.747 7.936 5.747 5.747 A. M. 1.57 1.57 (92) n a ca ca 4 4 ê April 10 April 10 larch 28 11 March 25 Warch 25 larch 28 DATE Ξ da 1939 April 5 April 6 April April April



Ports 8, C. 6-344

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19 -39

MONTH APF. & May

Woods (ouks in full haf).

Corn good stand, cult'd April 26
Cats 26" good; votch plowed under Woods (onks in full leaf)

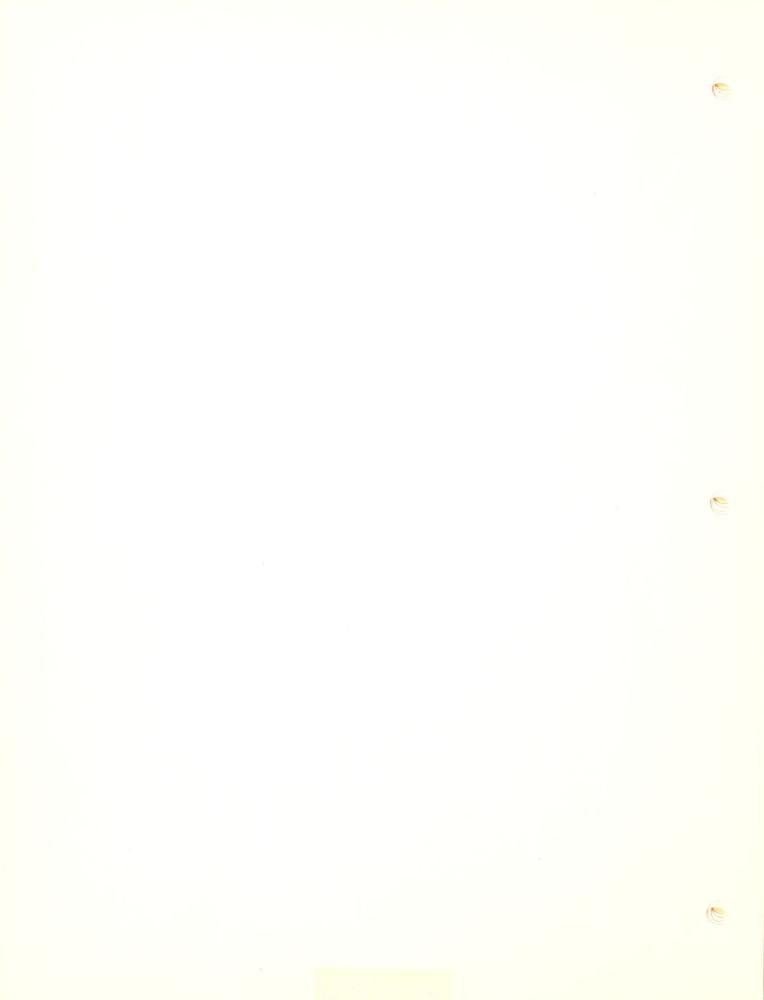
Corn good stand, cult"d April 26

Dats 26" good; vetch plowed under
April 25 Woods (oaks in full last)

Corn ,cood stand 12";cult'd hay ?

Cuts 55" good; remaining strips

disked Woods (ouks in full leaf) Corn good stand 4" high Oats 15" good; wetch 10" fuir NUESTR ratr ratr goods wetch 12" f goods wetch 12" f Woods (onks in full leaf)
Woods (onks in full leaf)
Woods (ouks in full leaf) Woode (aske in full leaf) Corn goou stand 12" Oats 36" good stend Corn good stand 4" high Corn good stand 4" high Corn good stand 4" high COMBITION OF WATHRIBE 13 Woods (onks in full Corn good stand 12" Oats 36" good stand 19 0 Outs 18" p Outs 18" p SHEET. 5 fitte Loss (tons per sore) 320 010 3.709 (114) HUNGOR (Inches) -646 (17) .407 564 340772 7.23AM Time <u>.</u> MAXIMUM RATE Ynte Ou ft. nec. 1.24 No. 16.90 9 (10) 0.053 0.024 0.216 RUNOUS Amount (inches) (14) ALL DOX 격 7148 Knded (hour) (13 pox TALSAM Silt Begna (hour) (8.8) Car NRO NRO NRO NRO NRO NRO MRO MRO NED NED NED (degrees F) 56. 9 4 9 19 333 999 58 58 3333 58 58 61 61 129 2 2 2 82 199 67 77 17 22 2 2 2 6 malgestram 18 malerestem 80 misseatum bodhum ayan hauar) (fransham pur hauar) (fransham pur houze 0.48 0.08 0.08 0.068 0.06 0.08 0.40 0 32 0-12 (01) MARKETON INTERNETY 0.36 0.48 0.56 0.56 1.40 0.08 0.12 1.60 0.16 0.12 1.16 1.36 1.28 0.88 0.16 8 3.84 0-48 0-48 0-72 0.84 3.36 0.12 0.24 2.52 0.24 0.24 2.88 2.64 2.16 0.24 Ê BAINFALL 0.63 0.03 0.27 0.03 0.24 0.00 0.70 0.48 0.10 0000 A ras-writed (fractions) 6 Durathus (rolnutes) 265 28 70 260 15 80 260 10 70 96 112 95 35 103 55 194 222 180 50 50 55 8 3 3 0 PROJECTSCS Experiment Station, Tylor, Taxas 11,005536 2,39FM 2,35FM 2,35FM 6130AM 5.031W 540713K 145830W 155544W 24004W \$405.4W 4457.4W \$2004W 7405234 5457194 6445174 9146174 9147154 6122AM 6125AM Bagna (hour) (8) 9-C-19 10-F-C 19 10-F-C 19 10-7-C 19 10-F-C Owen No. 12-F-A 12-F-A 19 10-F-C 12-F-L 19 10-T-C 0-1-O D-1-01 J-1-0 **\$** 57 57 7.936 5.767 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 7.936 7.936 5.747 1.57 7.936 5.747 1.57 5.747 1.57 4 3 WATTERIN Number Ê w 4 m m 4 m 44 m **∢** 0 ~ ~ ~ 200 m → v m + 4 April 16 April 16 April 16 April 16 April 16 April 16 April 13 April 13 April 13 16 200 222 ------200 1939 April. DATE April. April April April April April April April € KE KE May Hay E E E



Porm 8, O. 8.-848

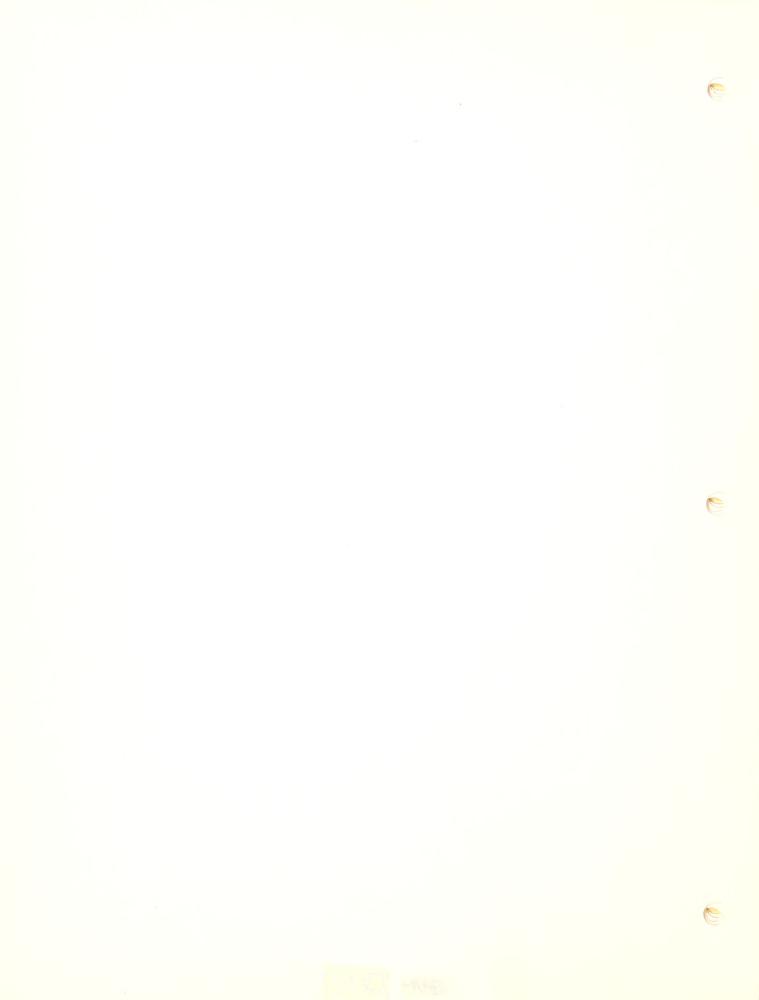
#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19 30

MONTH MAY & June

Woods (oaks in full leaf) Corn good stand 3";cult'd May 26 Oatu 38" good; cotton 1" good cultivated June 2 Woods (oaks in full leaf) Corn good stand 4° high Oats stubble 14";cotton 3"good HHEETB Woods (ouks in full leaf) Corn goud stund 24" high Unts 38" good;cotton emerging Woods (onke in full leaf) Corn good stand 3" high Outs 3t" good;cotton 1" good Woods (cake in full leaf) Corn good 21" high Strip croppedicate 36";cotton Woods (oaks in full leaf) Corn good stand 18" Outs 36" good; cotton plunted May 15 Moode (ouke in full leaf)
Corn tood stund 16"
Outs 38" good; cotton plunted
May 15 Woods (ouks in full leaf) Corn good stand 12" Outs 36" good stand Woods (ouks in full leuf) Corn good stand 4" high Oats harvested May 30; co Оометтон ог Wатамина 13 0,0 not up (tons per acre) 5.415 0.148 (18) RUN-DEP (Inches) 0.474 .633 (17) 2102AK 2104AK Time ê. MAXIMUM RATE rate Ou. ft. sec. No 9.27 (18) 0.017 0.286 Arnount (Luchen) (1.8) 2.5.34M 6.52AM Ru led (bour) NO X NRO 1.51AW 2 NBO Silt Silt Began (bour) (13) NRO NRO NRO NRO NRO NRO NHO NHO NHO NRO NRO NRO NRO NRO NRO NRO NRO NRO NHO NHO NHO 67. TREFERENCES (dogress F) 99 65 65 89 99 65 622 65 79 67 Ê B2 82 333 84 84 84 81 81 81 H 44 79 82 B 87 87 87 87 87 funingtee 1.6 vingtee 30 minutes (inches per bour) (inches per bour) 0.18 0.20 0.22 0.16 0.12 1.26 1.48 1.48 0.48 0.52 0.18 9 MARINDE INTOREST 0.20 0.24 0.28 0.28 0.20 2.40 2.40 2.28 0.56 0.32 1.84 1.64 0.56 0.88 0.88 9 0.72 0.48 0.60 0 24 2.88 2.40 2.40 2.88 3.24 3.00 1.44 1.44 0.24 8 RAINPALL Amount (Inches) 0.08 0.38 0.42 0.39 0.69 0.76 0.28 0.27 0.23 0.25 0.02 0.14 8 Duration (minutes) 110 380 466 420 95 217 215 9 200 35 42 42 72 72 70 19 989 PROJECT 8CS Experiment Station, Tyler, Texas 12.00Mit 4 19-C-1912 45514 10-F-C 12:4514 12-F-A 12:4714 9 1 1 1 P 1 9 1 2 2 2 P 1 3,3444 3,1644 3,3044 5 122F1 5 123F1 5 125F1 4.40FW 4.37FW 913817 714511 714511 1146aU 1145aU 1145aU 415444 415241 Rogad (hour) 9 19 10-5-C 12-8-A 13 10-F-C 2-4-7-21 19 10-F-C 19 10-5-C 12-8-A 1-F-4 12-F A 19 10-F-C 12-F-A Oags No. 19 7-F-4 12-F-A ĝ 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7-936 5-747 1-57 7.936 5.747 1.57 7.936 5.747 1.57 7-536 5-747 1.57 7.936 5.747 1.57 A rea (acres) 7.936 5.747 1.57 (3) WATERABAD Number m + vi ê m **→** w 740 m 4 m 940 940 4 4 A 4 4 4 w 4 v + ++ 13 16 16 16 17 18 5 5 5 5 1939 May 27 DAM Ξ June Juna P. May Ne. Y al Mal



Form 8. C. S.-84b

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19 39

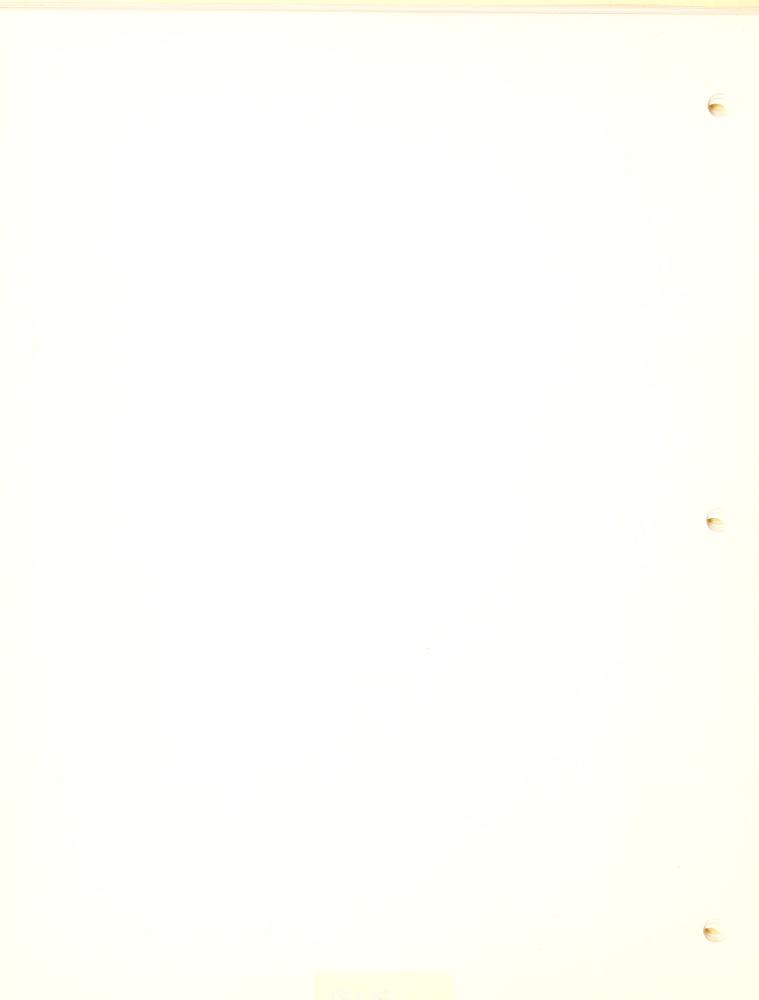
June

Month

BUEETS 14 Corn 4" good stund Outs stubble 14"; cotton 3" Outs stubble 14"; cotton 3" Woods (vuks in full leaf) Corn 5° good stand Outs stubble 14"; cotton 4" Corn 6' good stund Oute stubble 14"; cottun 6" Cult'd June 15 Woods (oaks in full leaf)

Corn 6° Lood stund

Oats stubble 14"; cotton 6" Outs stubble 14"; cotton 6" Woods (ouks in Aull leaf) Corn 6" good staid Strip cropped; out stubble. Cotton 6" Woods (oaks in full leaf) Corn 6° good stand Oats stubble 14" cotton 6" Woods (oaks in full leaf) Woods (ouks in full leuf! Woods (ouks in full leaf) Woods (ouks in full leaf) CONDITION OF WATERSHED 13 etund atund 10 po of Rood Corn 6' -SHEET SELY LOSS (total per acre) 1.387 (IH) MUNIOR MINUS MUNIORS (Hitches) 0.753 (13) 1,14FW 5.23 1.14FM 1.72 12.34FM Time (91) MAXIMUM RATE Cts ft 800. (18) HUN-OFF Amount (faction) 0.127 11) 2126FW 1110FM Knded (bour) NRO NRO NHO NRO NRO NRO NHO NRO NRO NRO NRO NRO ONN NRO NRO NRO NRO NRO NRO logen hour) 70 67 70 73 73 74 67 67 67 69 77 67 67 67 67 TREFERENCE F.) B3 B3 B3 444 300 2 2 2 83 83 83 83 83 87 87 16 16 minutes No minutes (feedon per hour (10) 0.84 0.20 0.88 0.62 0.30 0.22 0.86 MAXIMUM INTERNITY 1 44 1 0.44 0.28 1.60 1.60 1,20 0.56 a minutes inches per hou 0.48 3.84 3.60 2.88 0.84 2.64 2.16 3.12 1.32 (8) RAIBFALL Trace Trace 0.01 Amount (inches) 0.53 0.85 0.52 0.36 0.40 0.17 0.34 0.03 0.00 0.00 0.08 8 Duration (minutes) 150 165 285 285 53 177 163 30 30 - 4-PROJECT SCS Experiment Station, Tyler, Texas 12 (45FW 12 (42FW 12 (43FW 12,55FW 12,22FW 4.45FH 7.40FM 2106AM 1157AW 2104AM 12,55FW 5152FW 7134FW 12,52PV Fibblu Begna (9) 9-C-19 0-F-C 2-F-A 2-F-A 19 10-F-C 19 10-1 oC 12-F-1 19 .0-F-C D-1-01 2-F-A Chays No. 19 0-F-C 19 10-7-C 129 22 7-936 5.747 1.57 7.936 5.747 1.57 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 5.747 1.57 7.936 7.936 5.747 7.936 1.57 A rea (actre) 3 WATERSHED m m 9 2 4 11 9 4 5 4 4 99 w 4 0 m 4 0 2 4 5 4444 June 12 12 12 57 57 507 202 1.6 1.8 1.8 57 57 120 222 CB CB June 4 June June June DATE June June June June June 1939



Form 8, C. 8.-848

)

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

DIVISION OF RESEARCH

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

, 19 39

Э.

Monre June Jule & Aug.

Rood ; Cotton 12" goods out stubble 14" Cotton 12" goods out stubble 14" Corn 7: good stand Out stubble 14";cotton 15" good; Cult'd July 8 Oute stubble 14" jootton cult'd June 22-29: Oute stubble 14"; cotton cult'd June 22-29 Outstubble plowed under July 24. Outstubble plowed under July 24. Cotton 16" Cotton 26" toontrol etrip bars -Corn dormunt; crab grass Strip croppedicotton 26" jouts Corn 7' i good stund Out stubble 14" i cotton 22" Goods (oaks in full leaf) Woods (oaks in full loaf) Woods (ouks in full loaf) Woods (cake in full louf) Woods (ouks in full leaf) Corn dormant 1 crab' grass COMPITION OF WATSBEED Woods (ouks in full Woods (ouks in full 2 good stand Corn 7's good stand Corn goods 7. high (88) 60 cult'd July 18 Corn 7° 1 good 0 SHEET Stre Loss (lors per sore) 0-610 \$69.1 0.000 9.376 0.787 0.247 (13) RAIMPARE MINUS HUN-OFF (Inches) 0.658 2.047 1.318 1.786 0.542 1.096 (17) ZA47FW ZA52FW \$132AM Time (16) MARINUM HATS rate rate. No F 26.77 Ou. ft. 880 No 38 No. 4.81 L.79 0.003 0.022 Amount (fixehea) 0,368 0.034 HUNGORY ÷ 2440FW 4112FW 2443FW 5115FW 9125AM (front) 13) t oq DOK Silt 811t 5 +26AM Began (hong) NPO NRO NRO NRO NRO BO NRO MED NRO (13) NRO NRO (dagrees F) 20 77 222 222 25 22 75 252 72 72 72 4 5 23 7 59 . 100 307 901 103 22 2 4 98 98 444 65 16 22 222 # infantes the minutes 20 infantes (inches per hour) (inches per hour) 0.32 3-17 04.0 01.0 0.24 1.04 1.44 0.18 0.16 0.34 0.40 1.44 (00) MAXIMUM SPYRAMITY 0.36 0.56 5.28 3.84 0,32 0.20 8 0.52 1.76 2.24 95.0 0.64 1.84 0.64 300 #7-P-4 0.48 0 0.94 1.92 7.56 2.52 3.00 0.95 96.0 1.20 2.76 9 RATHTALL Amount (Inches) Trace. Trace 0.91 0.58 0.24 0.68 9 0.20 1.04 2.05 0.08 0.05 0.08 0.36 20.03 0.12 Duration (micutes) 100 108 98 115 30 35 18 235 30 6131121 27. 6122121 40 100 100 No record 9 243 10 10 PROJECT 8CS Experiment Station, Tyler, Taxas 3100PN 3100PN 2457PU 4 1 1 0 PM 5142AU 5145AU 5150AU BALSPY 6105FU 2432PU 2432PU 2432PU 4144PM 7137PM 1700 V 9 B 407PM SALDAN 5 t 15 AV 915417A 5112AV Beens (bour) (8) 19 7-F-4 12 F-A 19-0-19 12-F-A 18-C-19 10-Y-C 10-1-01 2-F-A D-1-01 2-F-A 19 10-Y~C 10-E-C 10-F-C Ongs Ma. (%) 1.9 7.936 5.747 1.57 5.747 7.936 5-747 7.936 5.747 1.57 7.936 5.747 7-936 5-747 1-57 7-936 5-747 1-57 1.57 1.57 A S 1.57 9 WATE MAKED Number 8 in of m m S 440 m 4 m 9 44 9 9 4 4 4 m **4** € haly 1— haly 2 July 1 July 2 June 29 23 23 222 2 29 28 28 128 138 82.4 July 1 July 9 July 9 July 9 9 DATE 1939 Ê July Aws. Aug. June June July July July July Aug. - 917



Purzs 8. C. 8.-848

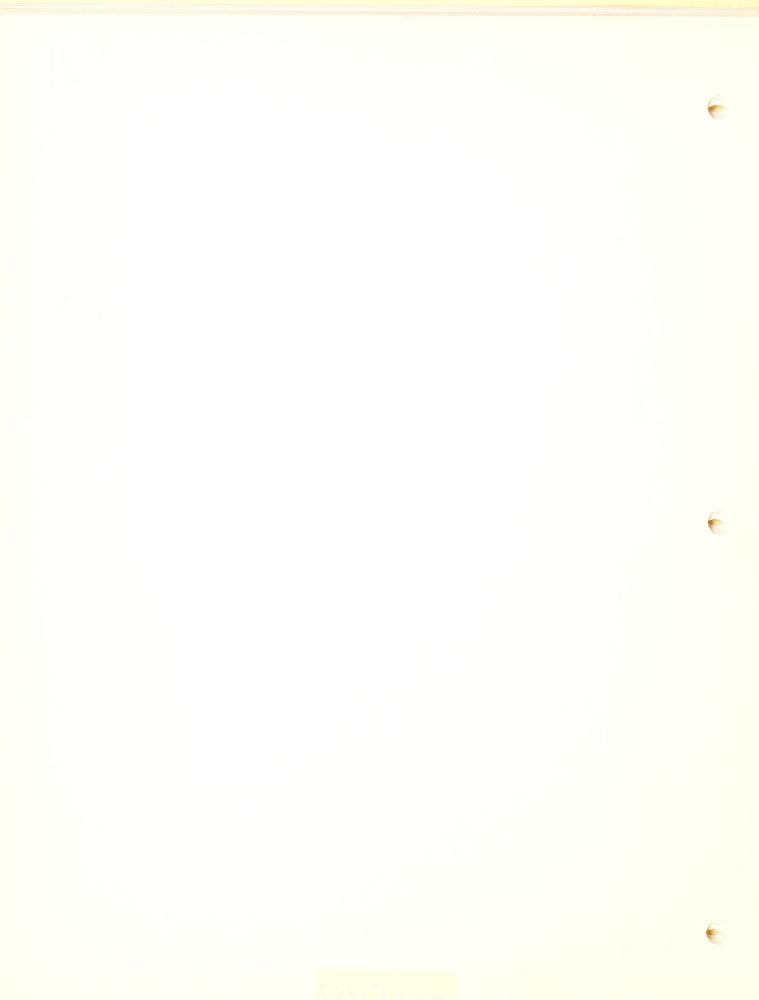
# UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

SOIL CONSERVATION SERVICE
DIVISION OF RESERVE

, 19\_39

MONTH AUG. & Sept.

Name		WA	WATERINED				RAINPALL	4			Traffina (degrees F)	a VURS		Вожови					The state of the s
1.27   1.27   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.2   1.	Бата	Number	Arm (acres)	Oags No.	Bogna (hour)	Duration (minutes)	Amount (theban)	M minutus	Agreed lavana.	Montantee		Mlakuum	-	_			RADINTALE MINUS RUN OFF (Inchas)	firs Loss (form per sore)	Оомирчон оф Wачааливо
3   7.936   1.9   60.00414   6   0.004   1.32   0.52   1.02   70   Mi0   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03   1.03	(1)	Ē	(3)	(7)	(8)	(9)	6)	(N)	(8)	(01)	3		+	(14)	8	(10)	(4.7)	(18)	(10)
1.57   1.57   1.57   1.57   1.57   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58   1.58	Mg. 16 Mg. 16	m <b>4</b> ∩	7.936 5.747 1.57	10-F-C 12-F-A		70	0.04	1.32	0.52	0.26	102		NRO NRO NRO						Woods (oaks in full loaf) Corn dorment; crab grass Cotton 25"; control strip bare
3         7.936         19         3.53AM         110         0.26         0.48         0.40         0.20         92         65         NRO           4         5.747         10-F-C         6.448M         10         0.26         0.72         0.40         0.20         92         65         NRO           5         1.73         10-F-C         6.472M         10         0.26         0.72         0.40         0.20         92         65         NRO           5         1.57         12-F-A         6.52AM         73         0.17         0.24         0.20         0.14         92         65         NRO           3         1.57         12-F-A         6.52AM         73         0.17         0.24         0.20         0.24         0.20         0.24         0.20         0.24         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20         0.20	mg. 17 mg. 17-11		7.936 5.747 1.57	10-F-C 12-F-C		655 80 85	0.45 0.50 0.52	1.56 1.68 2.16	0.80 1.00 1.08	0.42 0.54 0.60	8 8 8 6 7		3		Ter		0.402	0.170	Woods (oaks in full leaf) Corn dormunt (crab grass Cotton 28%; control strip bars
4         5.747         10-F-C 3155AN         107         0.25         0.72         0.20         92         65         NRO           5         1.57         12-F-A 6152AN         20         0.05         0.24         0.20         0.14         92         65         NRO           5         1.57         12-F-A 6152AN         20         0.05         0.24         0.20         0.14         92         65         NRO           3         7.29 6         19         9.10AUM         12         0.05         0.05         0.22         0.20         95         72         NRO           4         5.747         10-F-C         0.05         0.05         0.05         0.25         0.20         95         72         NRO           5         1.57         12-F-A 10 July         15         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05	ug. 23	66	7.936		31534W 7 4004W		0.26	0.48	0.40	0.20	80 100 100		NRO		1 1	1	; ; ;		Woods (ouks in full leaf)
5         1.57         12-F-A 6152AM         73         0.17         0.24         0.20         0.14         92         65         NHO           3         1.57         12-F-A 6152AM         50         0.04B         0.72         0.40         0.20         95         72         NHO           4         5.747         10-F-A         0.12         0.04         0.72         0.40         0.20         95         72         NHO           5         1.27         10-F-A         0.12         0.05         0.05         95         72         NHO           5         1.27         10-F-A         0.12         0.05         0.05         95         72         NHO           5         1.27         10-F-A         0.12         0.05         0.05         95         72         NHO           5         1.27         10-F-A         0.03         0.05         0.05         95         72         NHO           4         5.747         10-F-A         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05 </td <td>mg. 23</td> <td></td> <td>5-747</td> <td>10-F-C</td> <td></td> <td>107</td> <td>0.25</td> <td>0.72</td> <td>0 . 40</td> <td>0.20</td> <td>2 2</td> <td></td> <td>NRO</td> <td></td> <td></td> <td>-011</td> <td>1</td> <td></td> <td>Corn dormant torab graus</td>	mg. 23		5-747	10-F-C		107	0.25	0.72	0 . 40	0.20	2 2		NRO			-011	1		Corn dormant torab graus
3         7.9346         19         Bildow         52         0.13         0.72         0.40         0.20         95         72         NKD           4         5.747         10.FC         0.04         0.12         0.40         0.72         0.40         95         72         NKD           5         1.57         12.FA 10.48FM         53         0.09         95         72         NKD           5         1.57         12.FA 10.48FM         53         0.09         90         67         NRO           5         1.57         12.FA 10.48FM         52         0.09         90         67         NRO           5         1.57         12.FA 10.48FM         52         0.09         90         67         NRO           4         5.747         10.FC         0.05         90         67         NRO           4         5.747         10.FC         0.05         90         67         NRO           5         1.57         12.F-A 1002M         45         0.05         90         67         NRO           5         1.57         12.F-A 2109M         45         0.05         90         67         NRO           <		2.2	1.57	12-F-A 12-F-A			0.17	0.24	0.20	0-14	92		NRO						Gotton 26", control strip bare Cotton 26", control strip bare
4         5.747         10.FeC         0.12         95         72         NRO           5         1.57         12.FeA biszen         52         0.09         95         72         NRO           5         1.57         12.FeALO+Jaken         52         0.09         95         72         NRO           3         7.936         19         2.157         12.FeALO+Jaken         55         0.09         90         67         NRO           4         5.747         10.FeC         0.06         90         67         NRO           4         5.747         10.FeC         0.05         90         67         NRO           5         1.57         12.FeA LOOM         45         0.05         90         67         NRO           5         1.57         12.FeA LOOM         45         0.05         90         67         NRO           5         1.57         12.FeA LOOM         45         0.05         90         67         NRO           4         5.747         12.FeA LOOM         45         0.05         90         67         NRO           5         1.57         12.FeA LOOM         45         0.07         0.07			7.936	0 0 0 C	8430FW		0.13	0.72	0.40	0.20	95	-	NHO				1		Woods (oaks in full leaf)
5         1.57         12-F-A 0.145PL         53         0.09         95         72         NRO           5         1.57         1.2-F-A 0.145PL         52         0.03         90         67         NRO           3         7.236         19         5.00AL         55         0.05         90         67         NRO           4         5.747         10-F-C         0.05         90         67         NRO           5         1.57         12-F-A 5.00AL         165         0.05         90         67         NRO           5         1.57         12-F-A 5.00AL         165         0.05         90         67         NRO           3         7.4936         1.9         2.10PA         45         0.05         90         67         NRO           4         5.747         1.2-F-A512431R         45         0.07         92         69         67         NRO           5         1.57         1.2-F-A512431R         45         0.07         0.224         0.12         93         69         NRO           5         1.57         2-F-A512431R         45         0.12         0.22         0.12         93         69         NRO	mg- 26-	44	5.747	10-F-C		1	0.05				20 Q 21 Q		NRO						Corn dormant scrab grass
3         7.9346         19         12 12 157AM         115         0.009         90         67         NRO           4         5.747         10-F-C         0.05         90         67         NRO           5         1.57         12-F-A 1136AB         67         0.05         90         67         NRO           5         1.57         12-F-A 5100AB         165         0.05         90         67         NRO           3         7.436         19         2.150P         45         0.05         90         67         NRO           4         5.747         12-F-A121431R         45         0.05         90         67         NRO           5         1.57         12-F-A121431R         45         0.05         90         67         NRO	ug. 26	20	1.57	12.F-A 12-F-A	8132PM	5.2	0.09				50 SI		NRO						Cotton 28"; control strip bare Cotton 28"; control atrip bare
4         5.747         10-F-C         0.06         90         67         NBO           4         5.747         10-F-C         0.05         90         67         NBO           5         1.57         12-F-A \$100M         165         0.05         90         67         NRO           3         1.57         12-F-A \$100M         45         0.05         90         67         NRO           4         5.747         12-F-A \$100M         45         0.05         90         67         NRO           5         1.57         12-F-A \$12434354         45         0.17         0.24         0.12         93         69         NRO		ศศ	7.936		SACOAN.	115	50.0				00		NRO						Woods (oaks in full leaf) Woods (oaks in full leaf)
5         1.57         12-F-A 1.345A         67         0.05         90         67         NRO           5         1.57         12-F-A 5.002A         165         0.0B         90         67         NRO           3         7.4936         1.9         2.502A         45         0.05         93         69         IRO           4         5.747         1.2-F-A12.434R         58         0.07         0.12         0.24         0.12         93         69         IRO           5         1.557         1.2-F-A12.4343R         45         0.11         0.72         0.24         0.12         93         69         IRO		44	5-747	10-F-C			20.0	1			06		NBO	1 1		1	(;		Corn dormanticrat grass
3 7.936 19 12.50294 45 0.05 4 5.747 13-7-612.44184 58 0.07 5 1.57 12-f-412.4384 45 0.11 0.72 0.24 0.12 93 69 MMO		MM	1.57	12-F-A	NASSAL.	67	20°0				96		NRO NRO					}	Cotton 28"; control strip burs Cotton 28"; control atrip bars
	Sept. 17 Sept. 17 Sept. 17	ঘৰতা	7.936 5.747 1.57	12-F-6.	12 150PM 12 14TPM 12 149FM	45 5.8	0.07	0.72	0.24	0.12	69 69 69 69 69		иво мно мво		1 1				Woods (oaks in full leaf) Corn dermanticrab Frass Cotton 28", control strip disked



#### Porm 8, 0, 8-848

PROJECT SCS Experiment Station, Tyler, Texas

1

DATE 1939

#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

19\_39

MONTH Cot. & MOV.

73

0

SHEET 10

DIVISION OF RESEARCH

Woods (oaks in full leaf) Corn hurvested; stulks disked 7th Cotton harvested; stalks disked 4th Strip cropped outsivetch emerging SHEETS 'etch and oate planted in equal (ouks partially dormunt) (ouks partially dormunt) (ouks partially dormant) Woods (oaks partially dormnt) (oaka partlally dormant) Land, Land Woods (cake in full leaf) Recently disked; bare Recently disked; bare Woods (ouks in full leaf) Woods (ouks in full leaf) Woods (oaks in full baf) 2"; vetch emerging 2"; vetch emerging COMPITION OF WATERBED strips lith and lith Woods (oaks in full Recently disked Moode Woods Youds Outs Outs dare Bare form per acre) 3 Rainvald Misson Mussons (inches) (17) (18) Time Maximum Rave Ou ft. 840. (18) Amount (Inches) RUHORS 9 Knoted (hour) NRO (hogan NRO NRO NRO NRO NRO NBD NRO NHO NHO NHO NHO ê, 72-60 Gogress F) 63 01 01 01 01 01 222 63 63 68 68 68 68 20 69 5-87 85 85 2000 B 24 84 83 83 B B3 07 07 07 07 07 #3 # mirrortem 15 mfautem 20 mfautem (feebes per bour) 0.80 00-1 1.02 0.68 0.50 0.16 ŝ 0.14 MAXIMUM INTORBET 1.20 3 1.60 1.56 1.16 0.92 0,28 0.16 1.92 1.56 1.20 0.48 Ê 2.68 2\_88 0.24 RADIOALA A montail (Insthes) 0.72 0.02 0.03 0.0 18.0 0.05 0.25 0.04 0.00 0.02 0.03 0.02 E Petrothan (colnecton) € 248 248 247 200 163 115 120 226 45 888 11,22PK 11,22PK 11,23PK 11,3544 2,3042 5,5059 8,1542 10,1842 5,35PM 6,59PM 21454X 2141AN 2145AN 41014 1 a COLT 315741 Bugan (hour) 9 9-C-19 19 10-F-C 10-F-G 10-F-C 10-F-C 12-F-A 12-F-A 10-F-C 10-7-C 12-F-A Oags Na. 2-F-A 3 129 2 5 20000 7.936 7.936 7.936 7.936 7.936 7.936 7.936 5.747 1.57 7-936 5-747 1-57 7.936 5.747 5.747 7.936 5.747 1.57 1 1.57 € 1.57 WATEL Namber ~ m 4 0 ê 2 4 4 740 9 0 50 m 4 ппппп Oct.9-10 Oct.9-10 Oct.9-10

2.4 2.4

Oct. Oct.

Oct. 9

Oct.

Ξ

24 24

Oct. Oct. 255

Oct.

25

Oct.

25

Oct.

26

Oct.

27 27 27

Oct.

22222

Nov. No. Nov.



Purin B. U. B.-845

A S

DATA 1939

WAYSSEED

PROJECT SGS

1.57

2020

Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10

चा का च

Nov. 10 Nov. 10 Nov. 10 Nov. 10

999

Mov. 11. Mov. 11.

1.57

999

Nov. 11 Nov. 11 Hov. 11

222

Nov.

940

Nov-11-12

9 9

22

Nov.

Nov. Nov.

44

22

#### STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE UNITED

)

31 emerging 31 emerging 31 emerging 31 emerging Bur Bur auk cropped; outs 2g";vetch 1" 6 BILLETS dormant)
dormant) dorment dormant dormant, l" fair l" fair l" fair po of fulr fulr fulr fulr fulr 18 31 outs 25" 취취취취취 Redinkedavetch planted Redinkedavetch planted planted (ouke partially d (ouke partially d (oake partially d HOR OF WATERNIED Rediesedavetch planted plunted (caks partially smorging, partially votch vetch vetch Onts 25" good; votch Oute 25" good; votch Outs 25" good; votch (oaks partially 13 (ouke dorment) (onks dormint) OF \$ po 07 omerging emerging emerging food ; 6 bood 3 smerging emerging fairi ludiskedavetch todi sk edavetch (oako Nove 4 11 Woods ( otch aboo Woods etch Votch Wood e Roods etch atch etch otch food s Strip Montu SHEET BILY LOSE tors per nove, MUN-OFF (Inches) (13) VARIOUS WATERSHEDS Time (10) MARINEM RATE On ft sec (19) Amount (fachos) ON (tided AND THEIR RUN-OFFS Bognet (bour) NRO NRO NRO NRO NRO NRO NRO NA OH NRO NRO NAO ONN NAO ONN NAO NHO NHO NHO NHO NRO NRO NRO NRO NRO NRO NRO 42-39 TrMPharetta 22222 31 31 31 31 31 2444 424 244 30 30 30 48 56-47 56-47 56-47 20202 22222 56 56 47 47 47 09 56 56 56 56 Monday by hour) 0.20 0.08 0.50 0.1B 0.16 0.16 0.16 0.16 0.18 0.12 9 RECORD OF SINGLE STORMS MARINUM INTERNITY If infinites (inclusive per hour) 0.20 90.0 0.32 0.50 0.16 0.24 0.24 0.20 0.20 0.24 9 6 minutes inches per bour) 0.36 0.48 0.36 0.24 0.24 0.24 0.12 0.24 0.36 0.24 BAINFALL 0.25 0.05 0.09 0.28 90.0 000000 0.48 60.0 0.28 0.47 0.09 0.16 0.05 0.03 6000 boddona Duration 250 05 05 4 05 05 4 115 280 385 65 285 380 50 255 383 235 225 220 220 245 215 255 30 70 60 73 447 Experiment Station, Tyler, Texas 19-C-19121514W 19-C-19 5141AW 19-C-19121061W 5.52AM 8.15nU 100115-04 8.15AV 10.17AV 1.03PV 61154W 10,001 341144 3122AU 3.00AM Clock B 1241204 2145AM 12 (52AN 5142AN 12:07EM 12:55AM 2142AU 115541 Ведия (Воли) Z-F-A 0-0-0-0 9 9 9 2-15-A 10 10-F-C A-4-7 A-3-2. **V**-3-7 D-E-01 Jags No. 22 07 5 5.747 5.747 7.936 7.936 7.936 5.747 5.747 5.747 7-936 5-747 1-57 7.936 5-747 7.936

1.57

20

22

Nov.

er er

15

Mov.



#### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

PHOJECT BCS Experiment Station, Tyler, Texas RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

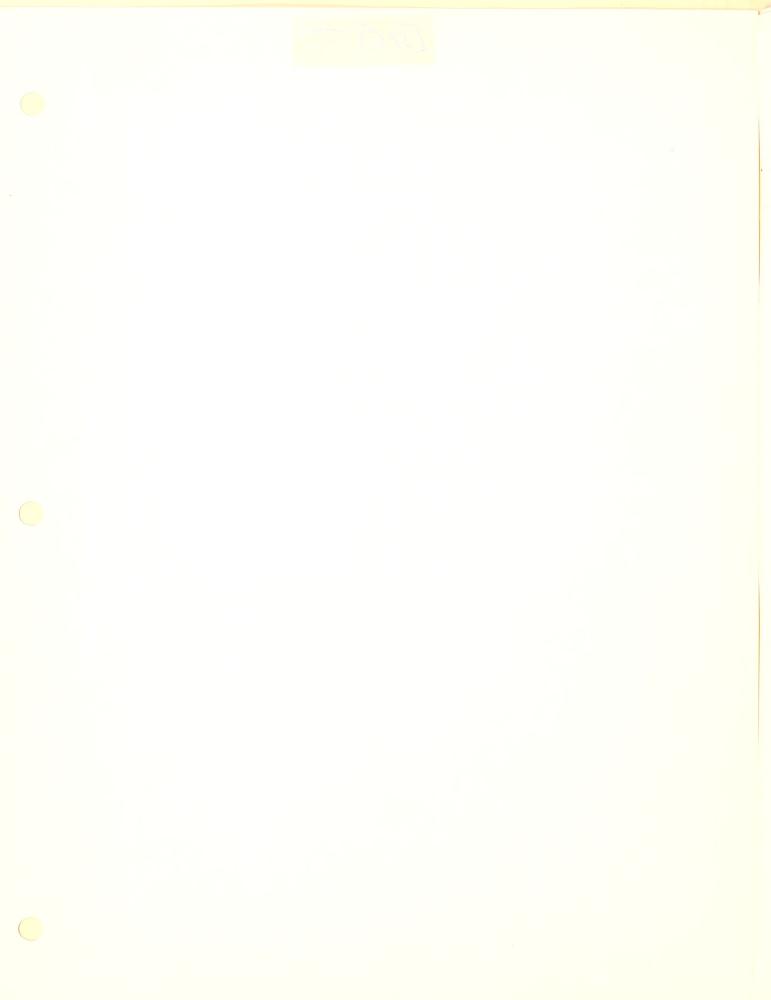
SHEET

OF 13

викктв , 19 39

MONTH MOV. A Dec. 122

	3 (3) Number	W атпально	Unge No.	Bagnan (hour)	2=			minutes how per hour) ((8)	Maximum largameter  Maximum largameter  (9)	A militate (Inches per Learn)		Taures Artisa (degrees Y) Maxinoum Minimum (11)	Hagan (hour)	Rooted (bour)	RUH-OFF Amount (Inches) (34)	MAXINUM BAVE Ou it see Time (15) (16)	Time		Rainteall Minus Hunder (Inches)
Nov. 16	ען ען ען	7.936 7.936 7.936	19-0-19	9-C-19 3:32AM 9-C-19 7:01AM 9-C-1910:46AM	165	0.03	₩¥₩ 				555	288	NRO NRO						
Nov. 15	+ +	5.747	7-12-4	TSINGT.	645	0.02		96.0	0.44	0.42	60	48	22	NRO	RIGO .	RO RO	RO RO	RO RO	RO RO
		1.57	12-F-A	-				0.72	0.28	0.22	60	# #	ZZ	NHO	RO HO	AO	RO .	80	80
Nov. 16	vvi	1.57	22 - F	7430AH	15 35 E	0.03	124			111	5 6 5	500		NRO NRO	NRO	NRO NRO	NAO NAO	NRO	NRD NRD
Nov. 16		7.936	19			0,02	Ñ				2	50		NRO	NRO	NRO	NRO	NRO	NRO
Nov. 18	Ess éss	7.936	19	11 10011	405	0.63	1	0.96	0.68	0.46	53	ט ט		OHN	NRO -	NRO -	NRO	NRO .	NRO .
Nov. 16	,	5.747	10-F-C	:			_	2			54 6	550							
I-II-AOM	- ia	1.67.0	0 0	LIDEN III	300	0.65	+	, M	0.00	0.40	2 2		- P	MACO	MADONG MACONA	*05AM 5*00AM 0*003	0.003	0.003	0.003
Nov. 17	ישים	1.57	12-F-A	12.22A	320			1.44	0.72	0.48	6 6	55		,					
11	7					0.62	Ř			3				3111	Silt box		box 0.017 No r	box 0.017 No	box 0.017 No r
Nov. 29-30	<u>نا س</u>	7.936	19 179	4145FM 10x20AM	PM 960	0.82 0.34		0.24	0.12	0.10	54-52	41-42 42		NRO	NRO NRO	NRO NRO	NRO	NRO	NRO NRO
Nov. 29	د د	5.747	D-8-01	0 11405FM	245 PM 955	1.10	1	0.12	0.08	0.06	5 5	41		NRO NRO	NRO NRO	NRO NRO	NRO	NRO .	NRO NRO
Nov 29=0	<u>မ</u> ဗ	1.57	12-F-A	10120AK	PM 970	0.78		0,12	0.08	0.08	54-52	41-42 42		NRO NRO	NRO NRO	NRO NRO	NRO	NRO NRO	NRO NRO
Dec. 15 Dec. 15 Dec. 15	மு≱ம்.	7.936 5.747 1.57	19 10-F-C	₽ C)		0.02 0.02 0.02	# # # # # # # # # # # # # # # # # # #			1 10	64	444		NRO NRO	NRO NRO NRO	NRO NRO	NRO NRO MRO	NRO NRO MRO	NRO NRO MRO
Dec. 22 Dec. 23	m m	7.936	19	4122A4	АМ 973	202 203 27		0.96	0.68	0.56	6 8	51		NRO	NRO	NRO	NIGO	NRO NRO	NIRO



### UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE DIVISION OF RESEARCH

PROJECT SCS EXPORTMENT STATION, TYLOR, TOLAR RECORD OF SINGLE STORMS AND THEIR RUN-OFFS ON VARIOUS WATERSHEDS

MONTH\_

Deon

19 30

10	Days.	W a	WATERAND AFTER (ACT OFF)	Gage No.	Hegan (bour)	Puration (minutes)	Ban Amount (Inches)	Rainfall  inf  6 infinites  (inches per int	MATINUM THYRITERS  15 minutes  (there per tour)	an minutes	Tears (degree	Minimum	Hegan (bour)	Rnded (hour)		RUN-OFF Arrount (Inches)	2	Manatu Rave	Manath Bare Bareall Mitter (inbe) Cu A. sec Time	Махимин Е
22 4 5.747 10-F-C 41174N 991 2.25 0.84 0.60 0.48 62 51 1.57 12-F-A 4123M 976 2.17 0.12 0.42 0.60 0.44 64 46 62 51 1.57 12-F-A 4123M 976 2.17 0.12 0.40 0.52 0.44 64 46 64 46 65 1.57 12-F-A 4123M 976 2.17 0.12 0.00 0.06 42 37 1.57 1.57 12-F-A 9104M 175 0.01 0.17 0.12 0.00 0.06 42 37 1.57 12-F-A 9104M 175 0.01 0.17 0.12 0.00 0.06 42 37 1.57 12-F-A 9104M 175 0.01 0.17 0.12 0.00 0.06 42 37 1.57 12-F-A 9104M 175 0.01 0.01 0.00 0.06 42 37 1.57 12-F-A 9104M 175 0.01 0.01 0.00 0.06 42 37 1.57 12-F-A 9104M 125 0.01 0.17 0.12 0.00 0.06 42 37 1.57 12-F-A 9104M 125 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.0	1.939	Number	(Bott on)		(hour)	(minutes)	(Linchan)	(Inches per hour)	18 minutes (inches per bour)	ur) (fuoles per hour	99 81 111 111	24 (100 000	(bour)	(Janet)		(lixclams)	Cu	Cu ft. sec Time	Cu ft. sec Time	Cu ft. sec Time
22 4 5.747	(1)	(%)	(3)	(4)	(0)	(6)	(7)	(8)		(10)	2	-	(12)	(13)	1 1	(14)	(14) (16)		(16)	(16) (16)
22 5 1.57 2.74 4.23AW 976 2.14 0.96 0.52 0.44 62 51 2.77 2.74 1.57 2.75 A 1.33AW 976 0.03 0.03 0.06 42 37 2.5 4 5.747 10.76 0.123AW 291 0.17 0.12 0.08 0.06 42 37 2.5 4 5.747 10.76 10.124 291 0.17 0.12 0.08 0.06 42 37 2.5 5 1.57 12.74 A 11.30AW 240 0.17 0.12 0.08 0.06 42 37 42 37 2.5 5 1.57 12.74 A 11.30AW 240 0.17 0.12 0.08 0.06 42 37 42 37 2.5 5 1.57 12.74 A 11.30AW 240 0.17 0.12 0.08 0.06 42 37 42 37 2.5 6 3 7.936 19 12.43AW 135 0.05 0.02 0.03 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 40 36 40 40 36 40 40 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40	Dec.22	4,4	5.747	5-3-0 5-3-0	4+17Al		2.25	0.84	0.60	L. 48	62	\$ 15 \$ p	2			0.005	5			
25. 3 7.936 19-C-1910.33AM 290 0.17 0.12 0.08 0.06 42 37 25 4 5.747 10-F-C 90.048M 55 0.02 4.08 0.06 42 37 25 5 1.57 12-F-A \$11.33AM 240 0.17 0.12 0.08 0.06 42 37 25 5 1.57 12-F-A \$10.04M 55 0.02 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.01 42 37 25 5 1.57 12-F-A \$10.04M 55 0.02 42 37 25 5 1.57 12-F-A \$10.04M 120 0.03 40 36 40 36 5 1.57 12-F-A \$11.34AM 120 0.02 40 36 40 36 40 36 5 1.57 12-F-A \$11.34AM 55 0.02 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40	Dec. 22	ਦਾ ਹਾ	1.57	2-8-V	4 12 341		0.03	0.96	0.52	0.44	62	51	E	6		Cancel	7	7	200	A COCO
25 3 7.936 19-C-1910.135AN 270 0.17 0.12 0.08 0.06 42 37 25 4 5.747 10-F-C 910.17 0.12 0.17 0.12 0.08 0.06 42 37 25 5 1.57 12-F-A 11.304N 240 0.17 0.12 0.08 0.06 42 37 42 37 25 5 1.57 12-F-A 11.304N 240 0.17 12-F-A 11.304N 240 0.17 12-F-A 11.304N 120 0.03 40 36 42 37 42 37 42 37 12-F-A 11.304N 120 0.03 40 36 40 36 42 37 42 37 12-F-A 11.304N 120 0.03 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 40 36 40 40 36 40 40 36 40 40 36 40 40 40 36 40 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40							2.17	i					Silt	rod		0.005	No r		No r	No rate
25 4 5.747 10-F-C 910429AN 291 0.17 0.12 0.06 42 37 25 5 1.57 12-F-A 91042N 265 0.40 42 37 25 5 1.57 12-F-A 91042N 75 0.40 42 37 25 5 5 1.57 12-F-A 91042N 75 0.40 42 37 25 5 5 1.57 12-F-A 91042N 135 0.65 26 3 7.936 19 4106AN 60 0.40 40 36 40 36 26 4 5.747 10-F-C 2.1546N 120 0.40 40 36 40 36 26 4 5.747 10-F-C 3.1546N 130 0.40 40 36 40 36 5 1.57 12-F-A 12.1546N 130 0.40 40 36 40 36 5 1.57 12-F-A 12.1546N 130 0.40 40 36 40 36 5 1.57 12-F-A 12.1546N 130 0.40 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40		Ew	7.936	19-0-19	10.35A		0.17	0.12	0.08	0.06	42	P.	NRO							
25 4 5.747 10-F-C 1515MAM 240 0.017 42 37 25 5 1.57 12-F-A 9(041M 75 0.01 42 37 25 5 1.57 12-F-A 9(041M 75 0.01 42 37 25 5 1.57 12-F-A 9(041M 75 0.01 42 37 25 5 1.57 12-F-A 9(041M 75 0.01 42 37 25 5 1.57 12-F-C 1215A2M 120 0.03 40 36 40 36 40 36 40 36 4.747 10-F-C 1215A2M 130 0.02 40 36 40 36 5 1.57 12-F-A 4(14AM 35 0.02 40 36 40 36 5 1.57 12-F-A 4(14AM 35 0.02 40 36 40 36 40 36 5 1.57 12-F-A 7(13AM 60 0.02 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40	Dec. 25	12.	5.747	10-F-C	10.2941		0.17	0.12	6.08	0.06	42	27	NAO							
25 5 1.57 12.F-A \$1.00AM 75 0.01 42 37  26 3 7.936 19 12.845M 135 0.05  26 3 7.936 19 4.02AM 60 0.03  26 4 5.747 10.F-C 12.545M 120 0.04  26 5 5.747 10.F-C 3.559M 60 0.01  26 5 1.57 12.F-A 4.145M 130 0.02  26 5 1.57 12.F-A 4.145M 35 0.02  27 12.F-A 4.145M 35 0.02  28 1.57 12.F-A 4.145M 35 0.02  29 1.59 12.F-A 4.145M 35 0.02  20 1.59 12.F-A 4.145M 35 0.02  20 1.59 12.F-A 4.145M 35 0.02  20 1.59 12.F-A 4.145M 35 0.02				D-4-0	91041		0.02				42	37	NRO _							Vetch
26 3 7.936 19 12145/W 135 0.65 26 4 5.747 10-F-G 121542M 120 0.04 26 4 5.747 10-F-G 31592M 60 0.01 26 5 1.57 12-F-A 121352M 130 0.02 26 5 1.57 12-F-A 41143M 35 0.02 26 5 1.57 12-F-A 71352M 60 0.01 26 5 1.57 12-F-A 71352M 60 0.02 27 12-F-A 71352M 60 0.02 28 5 1.57 12-F-A 71352M 60 0.02 29 10 10 10 10 10 10 10 10 10 10 10 10 10	Dec. 25	er e	1.57	2-5-4	RITO16		10°0	1	. 1		42	37	NRO			1				
26 3 7.936 19 12.45/W 135 0.05 26 3 7.936 19 4.02AW 60 0.03 26 4 5.747 0-F-C 12.54AM 120 0.04 26 4 5.747 0-F-C 3.559AM 60 0.01 26 5 1.57 12-F-A 12.35AM 130 0.02 26 5 1.57 12-F-A 41.4AW 35 0.02 26 5 1.57 12-F-A 41.4AW 36 0.01 27 A 41.4AW 36 0.02 28 5 1.57 12-F-A 71.5AM 60 0.01 28 40 36 29 5 1.57 12-F-A 71.5AM 60 0.01 29 40 36	1																			
26 4 5.747 10-F-C 3159AM 60 0.01 40 36 25 4 5.747 10-F-C 3159AM 130 0.02 40 36 26 4 5.747 10-F-C 3159AM 130 0.02 26 5 1.57 12-F-A 12135AM 150 0.02 26 5 1.57 12-F-A 4114AM 35 0.02 26 5 1.57 12-X-A 7145AM 60 0.01 40 36 26 5 1.57 12-X-A 7145AM 60 0.01	Dac. 26	ندا ندا	7.936		1214579 4105A		0.05			_	40	36	NRO							
25 4 5.747 10-F-C 3159AM 60 0.01 26 4 5.747 10-F-C 6155AM 130 0.02 26 5 1.57 2-F-A 4114AM 35 0.02 26 5 1.57 2-F-A 71.5AM 60 0.01 26 5 1.57 2-F-A 71.5AM 60 0.01 27 1.57 2-F-A 114AM 35 0.02 28 5 1.57 2-F-A 114AM 60 0.01 28 7 1.5AM 60 0.01	Dac. 26	*	5.737	9	1215464		0.04				40	36	NRO							
26 5 1.57 22F-A 4114AH 35 0.02 40 36 26 5 1.57 12-F-A 71.5AH 60 0.01 40 36 40 36 40 36 5 1.57 12-F-A 71.5AH 60 0.01 40 36 40 36 40 36 5 1.57 12-F-A 71.5AH 60 0.01 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 36 40 40 36 40 40 36 40 40 36 40 40 36 40 40 40 40 40 40 40 40 40 40 40 40 40	Dec. 26	* **	5.747	5-1-0	2125VN		0_01				40	36	NHO							Vetch Vetch
26 b 1.57 2-2-1 71.5AM 60 0.01 40 36		5	1.57	2-F ·A	121350		0.05		1		40	36	NHO				1	1		
Loss than -Ol for a	Dac. 26	to b	1.57	2-2-2	7 LILAN		10.07				10	36	NRO	1		: ;				
Les than Ol for a							1					j								
Los than -Ol for a																				
Les than Ol for a					;									1	İ					
Les that old for a					The state of the s															
Les than -01 for a				The second second					-											
	2/ 4	0	-Ol for	*	od															
		i												1						
	1												j				-			
												A								



ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR RUNOFF IN CUBIC FEET PER SECOND 005" RAINFALL FO M 950AM TO 12-38FM י 50יות 10,10 SOIL COMSLAVATION KIPLICIMENT STATION TRIPS, TEXAS 155 Rain of Jan. 11-12, 1939 Rain Cage: Fleid C 8 3 5 5 Kin 85 2 2 2 2 2 2 o °2 2 2 3 ° 9 5 5 5 5 5 5 5 8 F 8 8 11 12 °02 6E61 II JUMMY 3 9,02 0118 150 500 65-5-LESS THAN SULF BOX FULL GIFFELD "C" GAGE) ACCUMULATED RAINFALL lamar au 800 STORM NO.\_\_\_ UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSLEVATION SERVICE H. H. BENNETT, CHEF, BOIL ORNERWATION EXPERIENT STATION TYLEY, TEAMS 5 05 4 0 AT 73973H Jan. 11 & 12, 1939 0.5.#4 0.5.#5
5.727 0.48 0.427
0.48 0.427
1.9 1.49
5-1/2 5-1/2
kin. 42 Beste
59.555 5.49 crupped
0.237 0.002
Pall of 198 Fall of 198
0.237 0.002 8.00PM



ACCUMULATED RAINFALL & RUNOFF IN INCHES FEET PER SECOND RAINFALL INTENSITY IN INCHES PER HOUR CIBIC . - 12 (C) 12:054 SOIL CONSERVATION EXPERIMENT STATION TILER, TYPEAS Rain of Jun. 12, 1939 Rain Onya: Phald C 4125 150 5115 3 gc 35533385 1.24 12.00 .01 0 80° L 12.5 12.5 15.2 10:05 12:05 12:05 12:05 155 100-000 100-000 100-000 15 15 15 Min. 1.63 1.66 1.65 1.62 OES IT ASSITUATED Pet by B.C. date de 40 checked by O.C.M. date de 40. UNITED STAYES DEPARTMENT OF ASSICULTURE SOLL CONSCRIZATION SERVICE.
H. H. BERNELTS, CROSEF. STORM NO. .... (FIELD G'GAGE) SOIL CONSURVATION FIRST STATION
TO LIKE, THICKS Short 2 of 2 nometo Jun. 11 & 12, 1939 3.00...



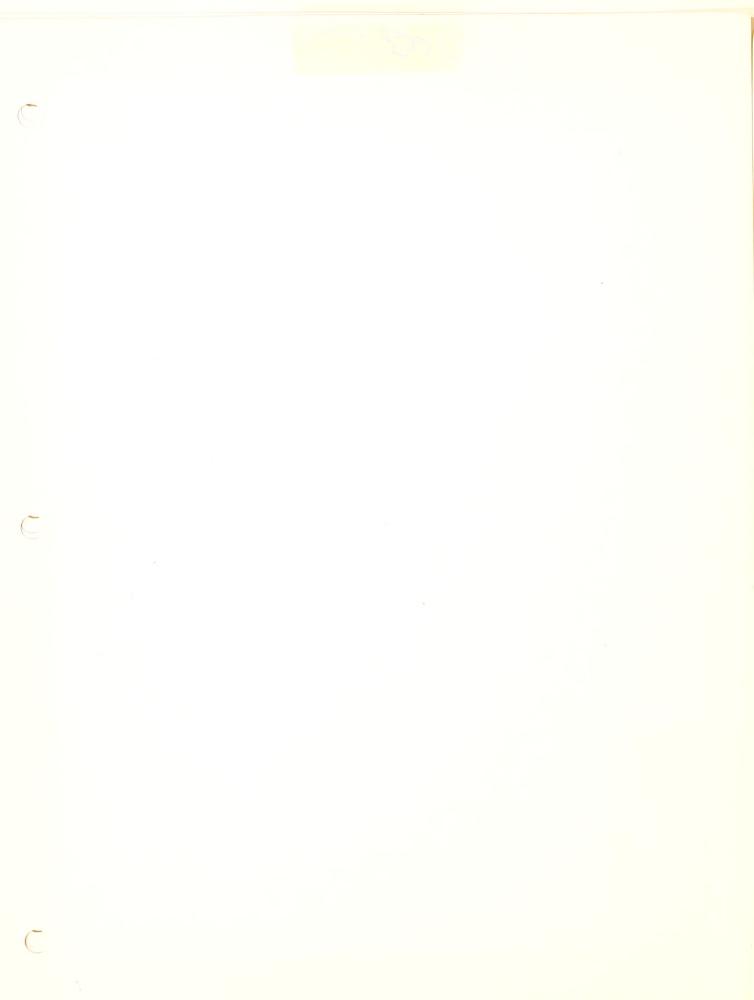




ACCUMULATED RAINFALL & RUNOFF IN INCHES RUNOFF IN CUBIC FEET PER SECOND RAINFALL INTENSITY IN INCHES PER HOUR 68-5 FEBRUARY ě, CFIELD G GAGE! ON UNITED STATES DYPARTMENT OF AGNICULTURE SOIL CONSERVATION SERVICE H. H. BENNLTT, CHIEF. PRAINFALL INTENSIT I ON MY OIL CONSERVATION CAPE CHEMI STATION 100PM

Sheet 2 of 3 mireta





ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR RUNOFF IN GUBIG FEET PER SECOND MYDONI 12100 11125 1,10 SOIL CONSERVATION EXPERIMENT STATION 2107 125 120 155 120 115 Rain of Pub. 17-18, 1939 Rain Gages Field C 35 152 į, 135 105 1.10 1.09 1.05 1.00 .R5 8 11.05 1.05 .20 .72 0 02 0 045 20 60 FEBRUARY 17, 1939 MYENSITY partent of area

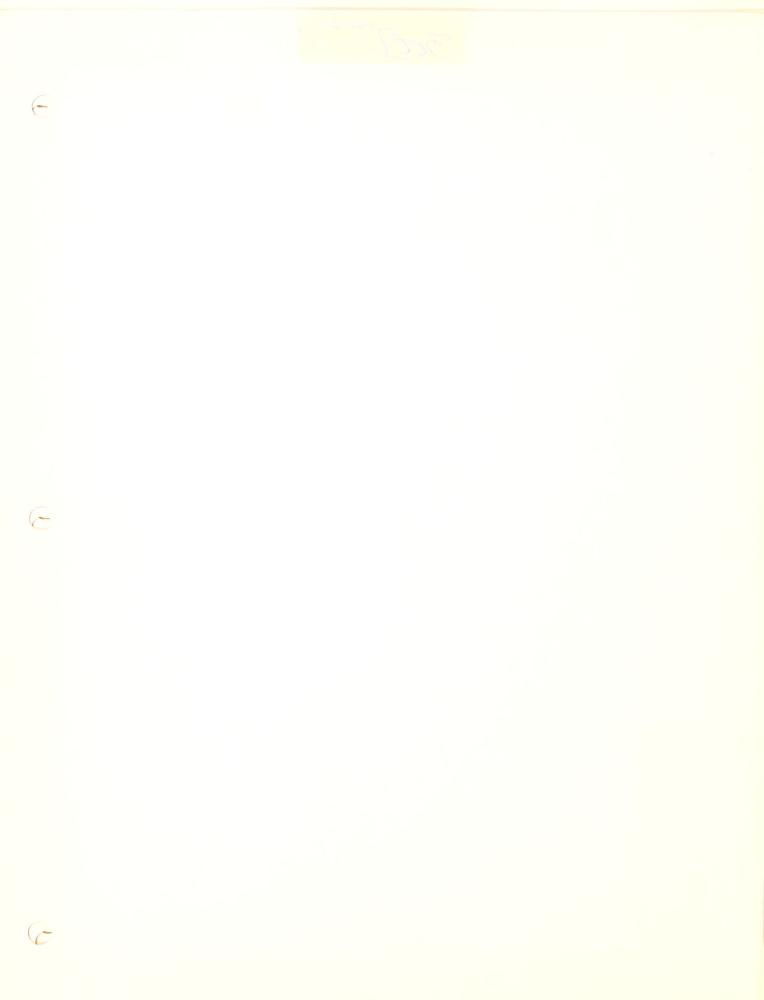
Blops, average (percent) \_\_\_\_\_

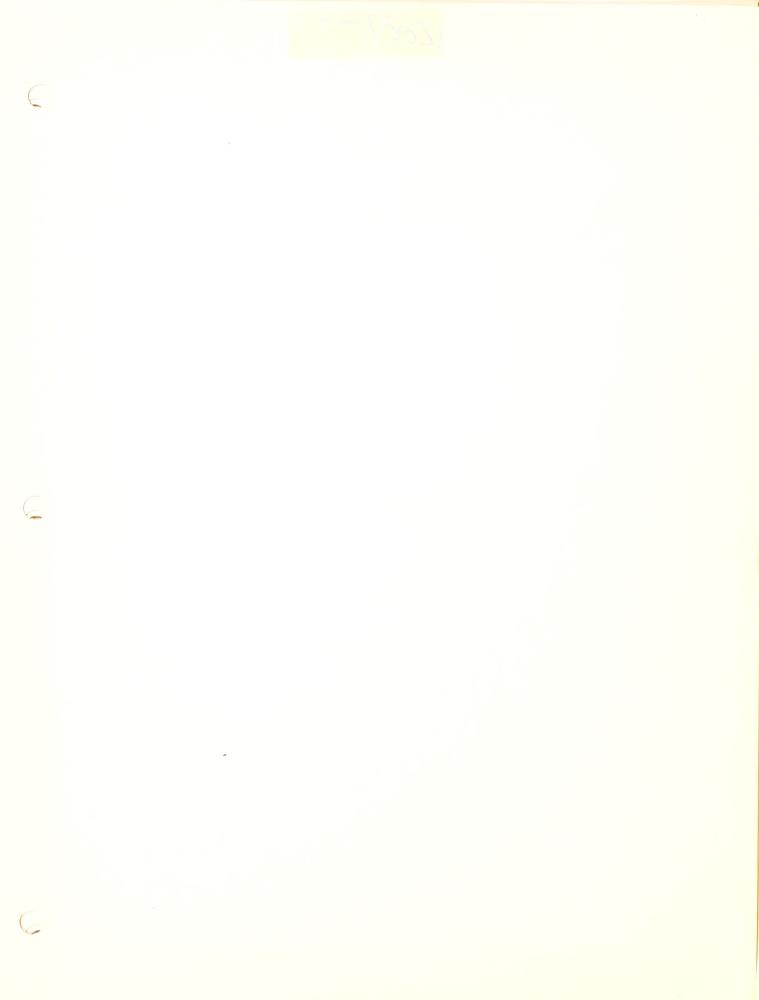
mailman

Cever, type \_\_\_\_

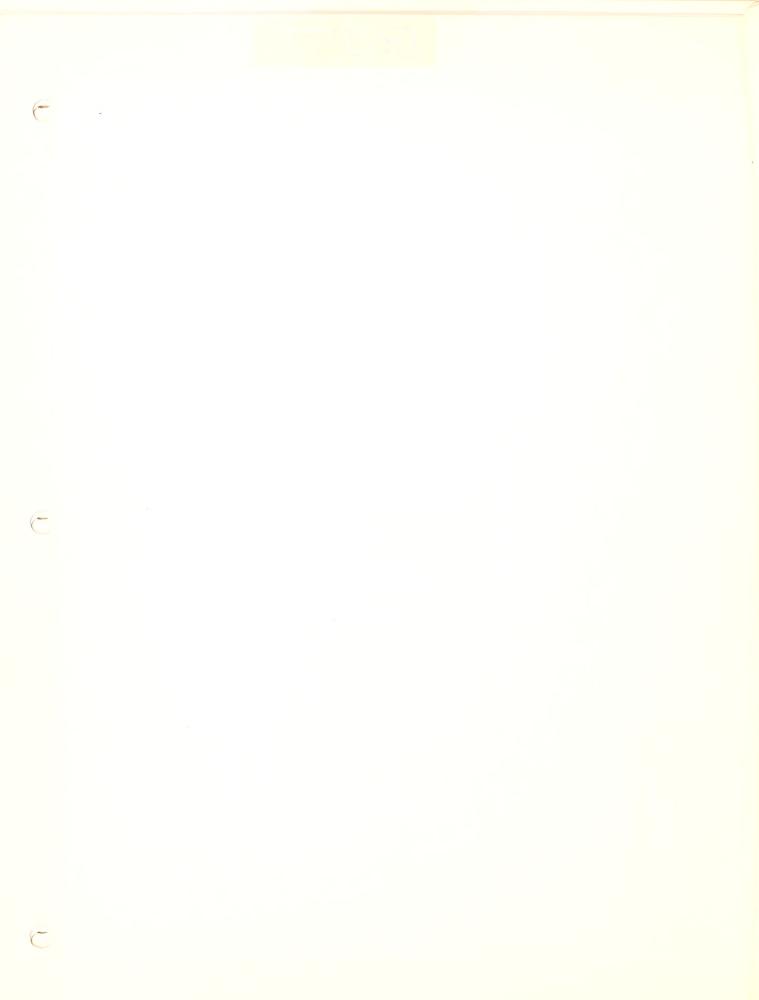
back last outfresed\_\_\_

date last outfresed\_\_\_\_ Preceding Rain (in.)
date begon
duretion (houre) Tempereture (ans & ain.) 8 Plot by B. C. date 4-40 checked by O.C. Es date 4-40 Computations by F. P. C. date 4-40 ... the ked by D. N. Madata 4-40 (FIELD "C" GAGE) CCUMULATED RAMPALL ONITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION STRVICE H. H. BENNETT, CHIEF. STORM NO. SOIL CONSERVATION EXPERIMENT STATION
TIEFH, TEXAS February 17-18-19, 1939 0.5.#4 5.747 0.62 2-14 1-1/2 Win. 39 Bowt e 59.574 7.508 500 Strip cropped Oute; wetch 1/4 1/6 Fall '98 0,222





ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR RUNOFE IN CUBIC FEET PER 12 -Ú, Q 6.00 7.00 FEBRUARY 19, 1939 Time (c) 2:222A :322 :422 5:27 :42 :42 :42 :42 :6:00 SOIL CONSERVATION EXPERIMENT STATION TYLER, TEXAS Rain Onge: Field C .16 .08 3 .03 .08 147 150 7,10 117 130 157 20 25 ೭ 900 .50 .49 .61 5 2 5 5 .16 .01 ŝ Plut by Basa date 4-40 cheeted by O.C.T. date 4-1940 computations by Basassa date 4-40 cheeted by O.S.T. date 4-1940 UNITED STATES DEPARTMENT OF AORICULTURE SOIL CONSERVATION SERVICE H. H. BENNETT, CHIEF, STORM NO .04 MODUMULATED RAINTALL SOIL CHISTRYATION KINER IMENT STATION 800 ( FIELD " D" G 1877 65-3-0 AT 63/PM FEB 21 65-4-0 AT 1155AN FEB 19 65-5-0 AT 24/FM FEB 19 Direct 3 of 3 absets Pb. 17-18-19, 1999 (GS-3-0188" 65:4 057/3 ----- CT-5-0374



ACCUMULATED RAINFALL & RUNOFF IN INCHES RUNOFF IN CUBIC FEET PER SECOND RAINFALL INTENSITY IN INCHES PER HOUR 72 0 NYOZ'G 020 1.00 12100 105P 1111 (1) 91254 127 142 153 153 SOIL CONSERVATION EXPERIMENT STATION
TYLER, TEXAS 12001,00001 REBRUARY 24, 1989 Rain of Feb. 24-25, 1999 Hein Cage: Minld C 65 Б Б 2 2 2 8 3 1 1 2 2 03 .02 .03 ,02 .03 .01 .00 9 8 .01 .01 0 0 8 4 0 5 0 10135 7105 6130 4157 3105 120 5 147 18 325 105 2 2 b 8 6 Ĉ 97 Б 18 ĸ 8 4 4 6 3 4 3 3 3 .26 5000W Preceding Rain (in.)\_\_\_\_\_

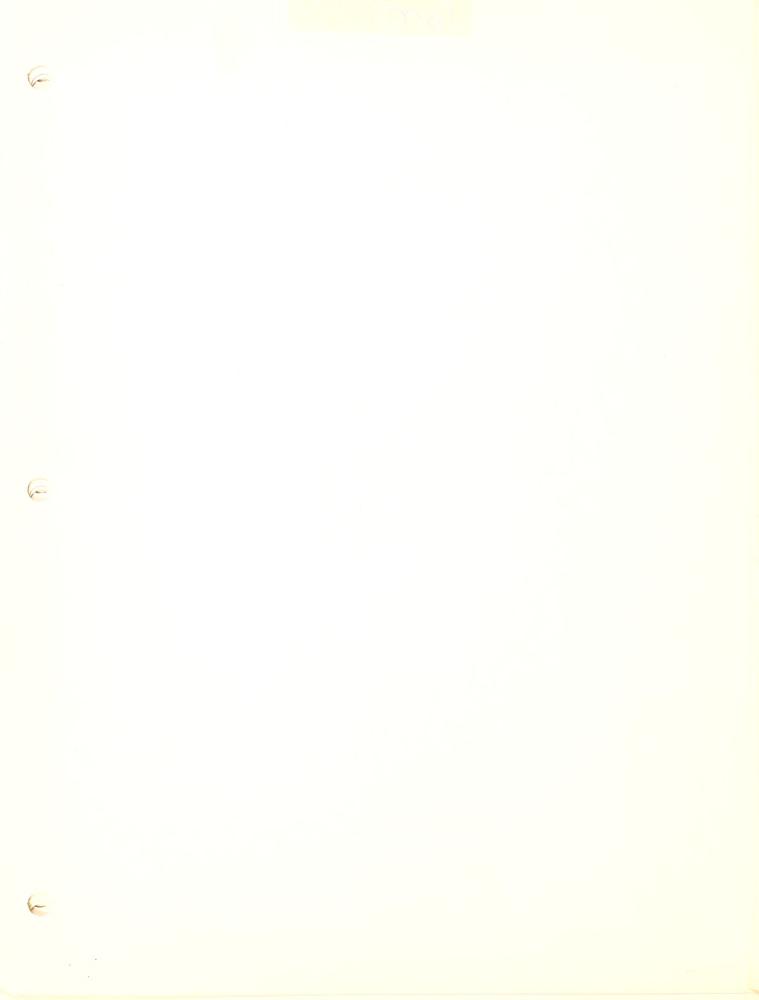
dete hagan
duration haure) Pit by "a Cammonto 40 22 \_checked by (1) by \_\_\_\_ dete STURM NO. ... Policums 24 & 25, 1939 UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF, CHELD C' GAGE) 8 SOIL CONSIGNATION EXPERIMENT STATION TELLS, TEXAS Sheet 1 of 2 sheets 0.002 7.50% 0.5.#3 7.936 1.29 2-19 5-1/2 Max. 57 Kirvin Moods Onto Onto: 1/3 1/3 Pall '38 1.654 0.S.#4 5.747 1.23 2-19 5-1/2 Min. 38 Bowte 59.55% Strip cropped
tes Vetch
'5 1/6
Fall '38
0.671

Branto.

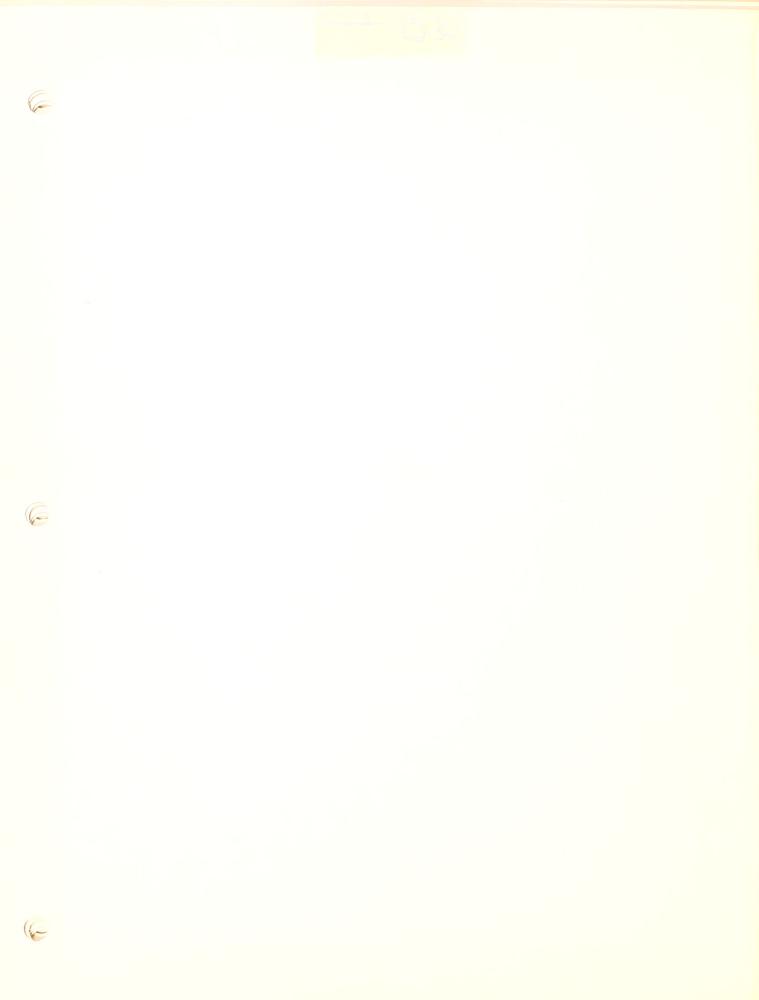
十七

0.5.**6**5 1.57 1.12 2-19 5-1/2

8



ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR 0.8.00 0.8.00 100-00 CVX31 " TIAL NOLLVALE SHEATHERN " TAL Rain of 18b, 25, 1989 Rain Gagus Field C 1.03 \$ STORM NO. UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF. LOUISMAL RAIMIDEL ON FEB. 65-5-0 AT 10240WAFER 25 Sheet 2 of 2 Shieta \_\_ February 24 & 25, 1939 US-J-M3552 -----8 27



ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR 4 Q, MIENSITY ż ACCUMPATED FAMENT OF (FIELD "C" GAGE) 5-4-0286 SOIL CONDENSATION EXPERIMENT STATION
TELEN, TEXAS ž č GS.-3-NO RUNOFF Rain of May 20, 1939 Rain Gages Field C 8 MAY 20, 1939 1.98 3.24 1.50 500 Arma mores 7.936

Prevaling thin (in.) 0.69

Prevaling thin (in.) 40/60

Anto bern 40/7

direction (hours) 1/2

Temponature and Amin.) 40/7

Entry type 1/2

Sell enjor type 1/2

Ballyn, narmye (perunat) 7.495

Ballyn, narmye (perunat) 7.495

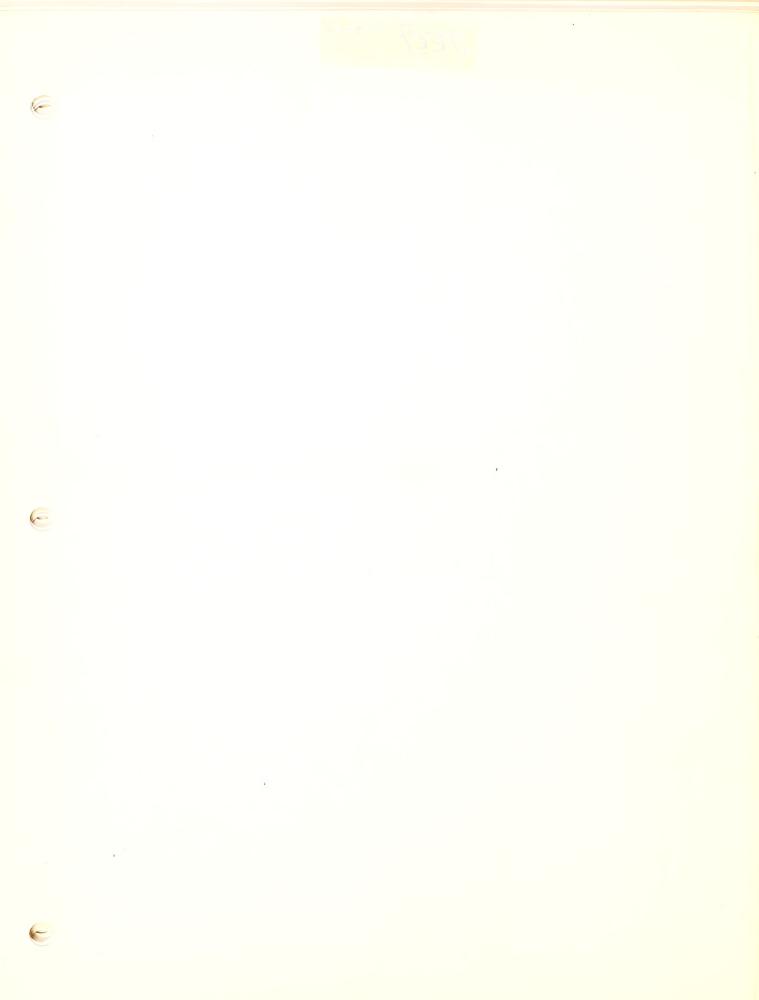
Ballyn, narmye (perunat) 7.495

Ballyn, narmye (perunat) 7.495

Ballyn, narmye (perunat) 7.495 600 Print to the differential of the second of t STORM NO UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
H. H. BENNETT, CHIEF. SOIL CONSERVATION EXSERTMENT STATION
TRUES, TELAS \_ Nay 25, 1 1 (65-5-0267 100 6.05 0.65 0.65 May 18 1/2 Min. 65 Bowin 59.534 7.504

Strip eropyad
Oats; cotton
3
3
May 15
0,629 5.50% Bowd e

2,64 0.52 May 18 1/2



ACCUMULATED RAINFALL & RUNOFF IN INCHES RAINFALL INTENSITY IN INCHES PER HOUR -0-4 8 SOIL CONSEGUATION EXPERIMENT STATION TILER, THIAS 125 125 126 136 Rain of July 2, 1939 Bain Cage: Field C .83 86 .H 8 2 8 °8 ŝ 3 3 F 1.35 .45 1.60 3.40 1.50 . 8 Preceding fain (in.)

data begin

duration (noire)

Tampreture (met. A min.)

Beil (major type)

Elops everage (percent)

maximum

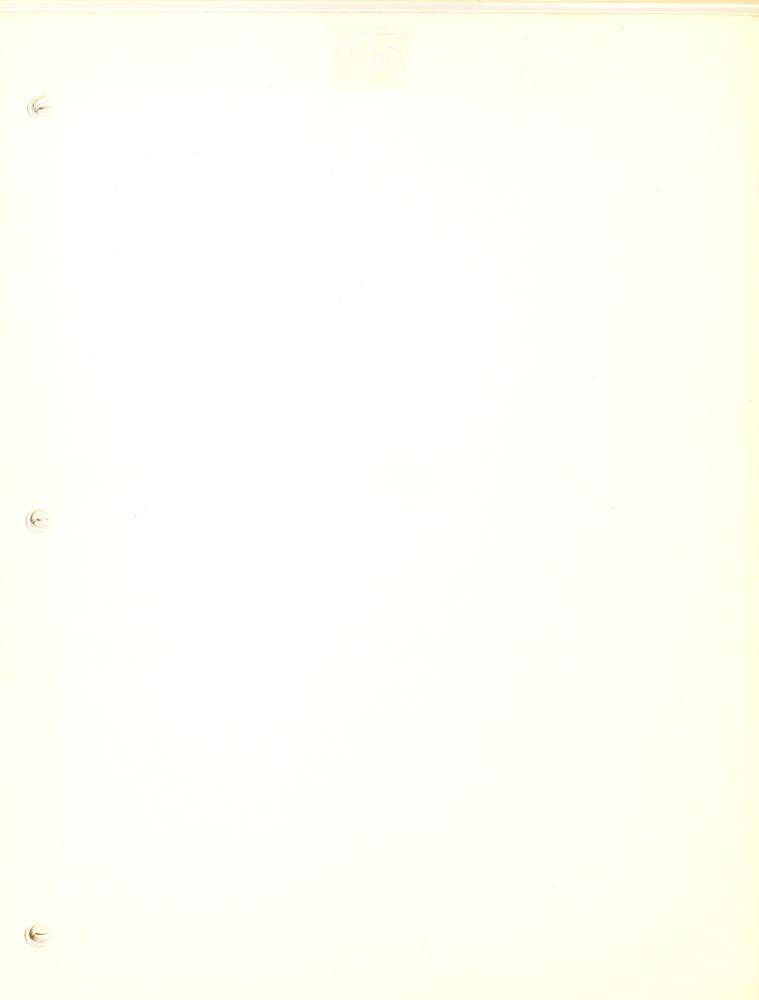
Corer, type

beight (ft.)

beight (ft.)

beight (tun per mire)

keners Plot by Baca date 4-40 checked by Occ. We dute Computations by MaRacadate 4-42 checked by Occ. Man date STORM NO. UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE H. H. BENNETT, CHIEF, SOIL CONSTRUCTION EXPERIMENT STATION TEXAS \$ D Shoot 1 of 1 shoot July 2, 1939 7.908 7.936 0.48 June 29 3 Hax, 91 Corn 71 May 26 1.695 June 29 3 Min. 65 Breste 99.554 7.508 6.05 0.48 5.50%
Strip cropped
Cotton; ost stabble
1' June 29
0,247 176 2.64 0.68 June 3



ACCUMULATED RAINFALL & RUNOFF IN INCHES

RAINEALL INTENSITY IN INCHES PER HOUP RUNGEE IN GUBIG FEET PER SEGONO 12870 V.S. THEM WITH CHANK 65 5-0144" SOIL CHASSIVATION EXHIBITION STATION 900 Rain of July 9, 1999 Hain Oage: Fleid C 2.00 1.86 1.64 1.8 · · · 03 .10 . 51 å 20 4.00 Freedily Main (in.)

Probably Main (in.)

date hughn,
date hughn,
diretion (boure).....

Peaperature (ani. A bin.).

Boil (an)or typo)

percent of are

Blupe, everyee (percent)...

beight (ft.)

beight (ft.)

date last outly and

foll live (tone per acts)...

Peapers Plut by Port. Jane 4-40 thereford by Colonia. date 4-40, thereford by Colonia date 4-40 thereford by Occupandate 4-40. STORM NO UNITED STATES DEPARTMENT OF ASSIGNMENTABLE
SOIL CONSERVATION STRVICE
H. H. BENNETT, CHIEF, SOLI COMPRESSION PRINCIPLICAL STATES - July 0, 1939 0.5.#3 7.936 0.94 July 2 1-1/2 Max. 98 Kirvin 0.5. 82 6.05 0.91 July 2 1-1/2 Min. 72 Bowto 99.538 7.508 Strip cryped
Strip cryped
Cottan cate a mabble
L-1/4: 1:
July 8
0,787 0.5.#5 2.64 1.04 July 2 1-1/2

